



FEBRUARY 1992



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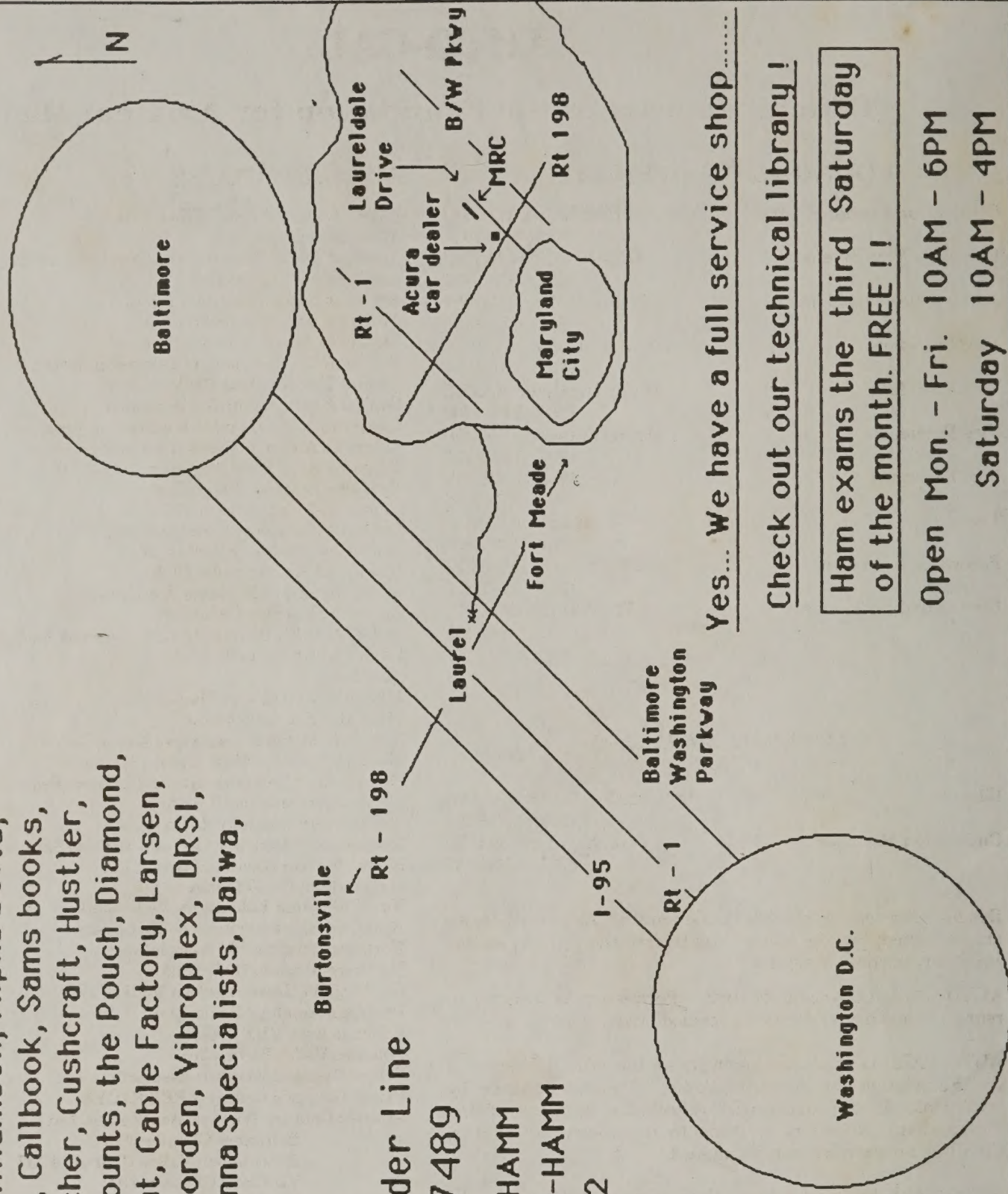
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Recording Secretary	Joe Seasely, KA3UZI (301) 725-5822
Corresponding Secretary	Ethel Smith, K4LMB (703) 536-8469

AUTO-CALL MAGAZINE STAFF

Editor	Ethel Smith, K4LMB (703) 536-8469
Circulation Manager	John Swafford, W4HU (703) 536-9537

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EDITORIAL

Pitch In

We would like to pay special tribute this month to a person who has done so much to promote the interests and activities of Amateur Radio in our community - the person we so often rely upon to lead our club, run our hamfest, man our public service activities, run our training sessions, "Elmer" our new Amateurs, conduct our VE exams, etc., etc.

This person is deeply involved in almost every club in the area and I am sure you have met him. His name is "George," and he is the fellow we keep referring to when we say "Let George do it."

There are a number of people in our area who fit this description, and we want to recognize all of these wonderful "Georges" and "Janes." We couldn't survive without them. We want to thank the "old reliable" who have been with us for years. They are the ones who have built Amateur Radio. We want to thank the new-comers who are quickly becoming involved in their club and community activities. They are our hope for the future.

Most of all, we want to encourage others to become more involved. I know it is can be a little bit intimidating to come into a new group that has so many of these capable and reliable people available, but, believe me, they want your help. The next time there is a job to be done, step forward and offer a few hours of your time and talent. It will be appreciated.

The Foundation For Amateur Radio needs more help if it is to carry out all of its programs. We would like to see the Trustees from every member club in attendance at every FAR meeting. Make sure your club is being represented. One of the Foundation's major projects is the annual Hamfest. Many hands are needed to carry out this gigantic undertaking. Planning is under way right now for the September 1992 F.A.R. FEST. Let us know if you, personally, or your club can help.

The future of Amateur Radio depends on the efforts of all of us. Don't sit back and let George and Jane do it all. Pitch in.

Ethel -K4LMB
Auto-Call Editor

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Coming Events

Feb 1-29	VOA 50th Anniversary QSO Party	
Feb 15-16	ARRL DX Contest - CW	
Feb 23	Vienna WINTERFEST™, Vienna Virginia	(See Page 33)
Feb 29	Cumberland County Winter Hamfest, Camp Hill, PA	(See Page 26)
Mar 1	York Springfest, York, Pennsylvania	(See Page 30)
Mar 7-8	ARRL DX Contest - SSB	
Mar Mid	Next SAREX mission, STS-45 - high Inclination	
Mar 12-23	Virginia QSO Party Sponsored by Sterling Park ARC	(See Page 25)
Mar 14	Special Event Sponsored by Southern Patuxent ARC	(See Page 46)
Mar 28-29	Greater Baltimore Hamboree, Timonium (Baltimore), MD	(See P34)
Apr 12	Penn-Del ARC Hamfest, New Castle, Delaware	
Apr 24-26	Dayton Hamvention, Dayton, Ohio	
May 10	FAR/QCWA Annual Spring Banquet, Greenbelt, MD	(See Page 25)
May 10	Roanoke Valley Hamfest, Vinton (Roanoke), Virginia	
May 15-17	Rochester Hamfest, Rochester, New York	
May 17	Wheeling, WV Hamfest. West Virginia's largest Hamfest	
May 24	Maryland FM Assn. Hamfest, Howard County Fairgrounds	
Jun 7	Ole Virginia Hams Hamfest, Manassas, Virginia	
Jun 21	Frederick Hamfest, Frederick, Maryland	
July 12	Carroll County Hamfest & Computer Show, Westminster, Maryland	
July 26	BRATS Hamfest and Computer Fest, Timonium, Maryland	
Aug 2	Shennandoah Valley Hamfest, Berryville, Virginia	
Aug ?	Southern Patuxent Hamfest, Uper Marlboro, Maryland	
Sep 5-6	Shelby Hamfest, Shelby, North Carolina	
Sep 13	F.A.R. FEST, Gaithersburg, Maryland	
Sep 19-20	Virginia Beach Hamfest, Virginia Beach, Virginia	
Oct 4	Howard County CARA Hamfest, Howard County Fairgrounds	
Oct 18	Cumberland County Hamfest, Carlisle, Pennsylvania	
Nov 1	Mason-Dixon Hamfest, Westminster, Maryland	
Dec 6	HolidayFest '92, Largo, Maryland	
Dec 11	Southern Maryland ARC Annual Christmas Dinner/Meeting, Camp Springs, MD Elks lodge.	

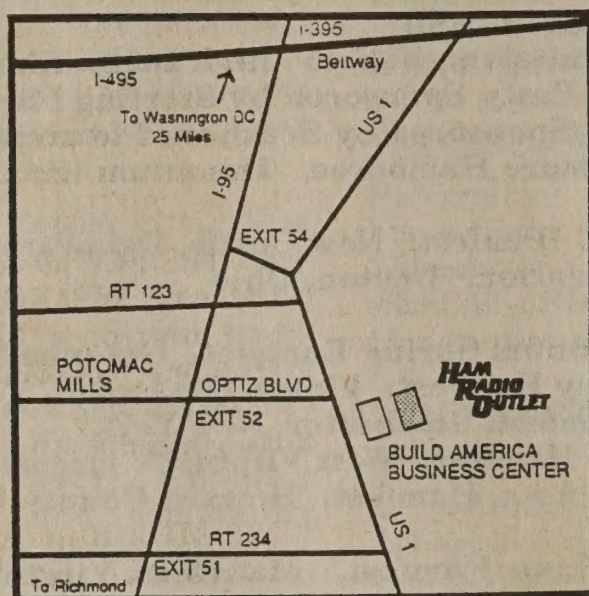
Thanks to Bob Milligan - KI4MB and the SERA Repeater Journal for providing much of the above information. Please keep Auto-Call advised of coming Hamfests and other important Coming Events. We are anxious to provide our readers with timely information and help to avoid possible conflicts when scheduling activities.

We can use all the help we can get!



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FCC Highlights

by Jack Kelleher - W4ZC

FCC Refuses to restrict Amateurs in RFI cases (W5YI Report, 12/15/91). The FCC has said 'closed' to two unusual, long-running conflicts between Radio Amateurs and their neighbors over susceptibility of home electronic products to radio-frequency interference (RFI and TVI).

In one case, neighbors actually filed a Petition for Rulemaking to restrict Amateur "broadcasting". They proposed to prohibit private Amateur transmitters in areas of dense population -- hams would have to use "Remote, multi-user broadcast facilities" instead.

In the other case, a neighbor -- after extensive unsuccessful legal proceedings against an Amateur -- appealed to lawmakers for help. He argued, among other things, that the advent of communications satellites has rendered the Amateur Service "largely obsolete". The request was treated as a Petition for Rulemaking by the FCC, which defended its policies and declined to stop the Amateur operations.

The FCC responses are contained in a similar letter sent to both neighbors (The letter is reprinted in the W5YI article; and also in the ARRL Letter, 12/19/91). The W5YI Report says further that the letter may provide some guidance and moral support to hams who face irate or even threatening neighbors who own interference-prone consumer products.

Number of New Amateurs Doubles. (W5YI Report, 12-15-91) Figures released by the FCC continue to show that abolishing the Morse code requirement is causing the number of new hams to increase dramatically. The average number of first time Amateur Radio licensees for the period April through October 1991 is more than 100% greater than the average of the four prior years.

The first Codeless Technician operator license was mailed on March 12th 1991. April was thus the first full month of issuing the Codeless Technician class license. 29,399 newcomers joined the Amateur Radio ranks between April and October, an average of

4200 a month, compared with an average of 2,065 for the same period during the last four years. During 1991 65% of all newcomers entered ham radio via the code-free Technician path; only 33% entered as a Novice operator.

Other Briefs (W5YI Report, 12-15-91)

- The FCC has denied and dismissed a Petition for Rulemaking received July 26, 1991 from Scott Schoenbleben, N4UAD of Liberty KY. Scott requested \$97.305 be amended to prohibit AM (A3E) and FM (F3E) emission in any portion of any Amateur band below 28 MHz.

- The FCC denied a request from James H. Larson, WB4KQQ of Memphis, TN that the commission "...change its definition of a frequency coordinator and narrow the group of licensees who are eligible to decide who will be recognized as the local frequency coordinator".

220 MHz Repercussions (Westlink Report, 12/13/91) Last month, under "More on 216-225 MHz", we mentioned a new ARRL petition (filed Nov. 12, now designated RM-7869), to create a subband for weak signal communications between 222.0 and 222.15 MHz. (Actually, the petition cited a number of types of experimentation which can be categorized as weak signal communications). Among other things the ARRL petition stated that "...in order for a weak-signal segment of the 222-225 band to be created as herein proposed it may be necessary to relocate certain repeater operations elsewhere in the band"

One consequence of establishing this subband might be that alternative frequencies cannot be found for some repeaters, especially in densely crowded areas such as Southern California. According to Westlink, California hams are vowing to make this a "fight to the death".

Westlink goes on to say: "An ARRL spokesman said that he is aware that the action will have an adverse impact on repeater operations and auxiliary links, but says the organization feels that the needs of non-FM interests must

FCC Highlights - Continued

also be protected". Also "While the ARRL stand is drawing praise in some quarters, FM interests in Southern California are charging that the League has bowed to political pressure from a small but vocal band of experimental users and "sold out the FM community".

Comments by Westlink Editor Burt Hicks ((WB6MQV) are worth noting. Burt says: "Westlink report is usually biased to promote experimentation over simple communications because of our desire to see Amateur Radio continue to contribute to the state of the art. However, unless someone can convince us that there is some practical purpose in 'fine tweaking' our technical expertise in low power CW or SSB, or in EME work at these particular frequencies, we must consider several things. First, most of these specialized activities take place on 144 and 432 MHz. The equipment is more readily available (yes, I know some hams still build their own), and there is a several hundred kilohertz guard band on each. In addition, these systems serve dozens of users each, not just one person. Perhaps a compromise can be worked towards. In much of the country, a good part of 222 MHz is still underutilized, while in the major cities such as Los Angeles, there are often two or even three repeater systems on the same frequency, using 'PL' and DTMF tones to access the desired one. Westlink believes that if surveys were conducted showing just how many repeaters, auxiliary links, control receivers and users currently occupy this 150 kHz of spectrum which could not be moved to other frequencies in the band, a list of cities might be developed that could be excluded from the proposed ban on FM operation. Add a suitable radius to reduce on-channel interference and a workable solution might be developed. No, it's not perfect, but Amateurs have become experts at working weak signals through QRM. Maybe, when conditions favor tropo or meteor scatter work, many of the systems could be encouraged to shut down, for the few hours it exists. And thousands of people wouldn't have to lose the use of tens of thousands of dollars worth of equipment".

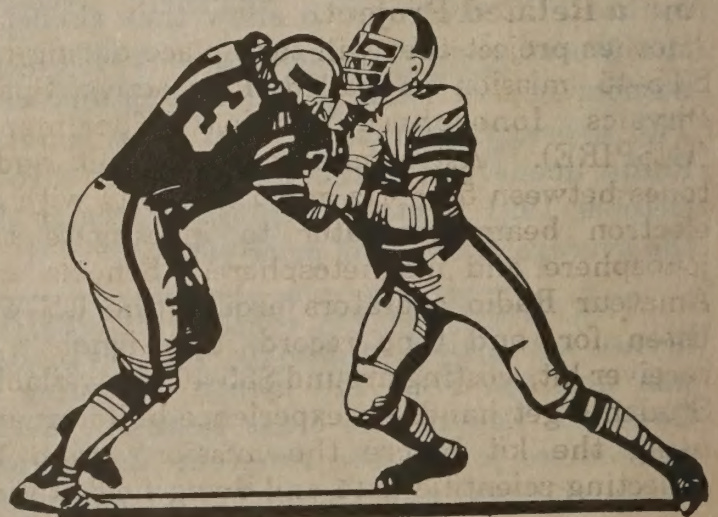
Your editor does not subscribe to any particular solution to the problem, but recalls that band-sharing has at least three dimensions -- frequency, time and geography.

Potential tower troubles (Westlink Report 12/12/91). Clay Frienwald, K7CR, writes: "Next year will see the FCC increase the number of inspections of commercial and broadcast facilities, and with that comes a stern warning: the engineers will be looking at towers. Already in this area of the Pacific Northwest the FCC has been out looking at commercial towers with a Global Positioning System receiver, checking to see if the coordinates noted on the station license are in agreement with the GPS device. The situation is even more critical when it comes to tower lighting and related safety measures. The FCC has made it very clear that in the event that they inspect a facility and find a tower violation, every licensee on that tower will be fined! (emphasis added).

"If you operate an Amateur repeater system on a commercial tower, especially one that has marking or lighting requirements, you had better make certain that the structure is in full compliance and is kept that way. You cannot delegate this responsibility to another person even if you are getting tower space free of charge. Several Amateur repeater stations around the country have already found out that the new FCC initiative into tower compliance has the teeth to bite into hams with ease".

✻ ✻ ✻

HAIL TO THE REDSKINS SUPER BOWL BOUND!



American Radio Relay League Report

By John Swafford -- W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

Shuttle Mission STS-45.

March is the time frame currently given by NASA for the next Shuttle Amateur Radio EXperiment (SAREX). This mission is designated STS-45, and three of the shuttle crew members are licensed hams. Brian Duffy - N5WQW, Dave Leestma - N5WQC and Belgian Dirk Frimout - ON1AFD, will operate ham radios from space! You can request information about SAREX activities and lesson plans by sending a note to EAD. Only four or five schools will get scheduled QSOs, but the mission will be in a highly inclined orbit, making unscheduled QSOs much easier than with previous SAREX missions. EAD has received about 50 letters from schools wanting to participate. If you are interested, you need to send us a letter, right now, which tells us:

- what your planned activities are
- how you plan to get as many schools as possible to participate in your planned activities. As an example, for mission STS-37, Terry Redding-WB5LMJ involved students from 21 local schools.
- how you will get as much publicity as possible for your planned activities.
- what licensed young people you can line up to handle the radio contact.
- what local adult group you have as a resource to help with needed equipment, publicity, school link-ups and so on.

And a Related Project.

Another project that will take place during the STS-45 mission is called INTERactive Space Physics Ionosphere Radio EXperiments (INSPIRE). Astronauts will transmit audio tones between 50 hertz and 7 kilohertz with an electron beam generator to investigate the ionosphere and magnetosphere. Schools and Amateur Radio operators around the US will listen for, and tape record, the signals. A receiver kit, costing around \$35-40, is available. Students get hands-on experience building and using the kit before the mission, and by collecting scientific data and doing field station

coordination during the mission. For more information on INSPIRE, send a self-addressed envelope with two units of First Class postage to Bill Pine, Chaffey High School, 1245 N Euclid Avenue, Ontario, California 91762.

You can use the kit for other communications projects, as the frequencies are allocated for educational activity by unlicensed students. For information on what is legal and what is not, on non-Amateur Radio frequencies, write to EAD for a copy of the Federal Communications Commission (FCC) rules that cover such activities.

Rinaldo Named to WARC Delegation.

Paul Rinaldo - W4RI, ARRL manager of technical development, has been named a member of the U.S. Delegation to the 1992 World Administrative Radio Conference.

The nomination was made on December 122 by Ambassador Jan W. Baran, chairman of the U.S. Delegation.

ARRL Executive Vice President David Sumner - K1ZZ will attend the WARC as part of the International Amateur Radio Union observer team. Further information on WARC appears in January QST, Page 99.

Cushcraft Founder Dies.

Lester Cushman - W1BX, the founder of the Cushcraft Corporation, died November 12, 1991. He was 86.

He was born in South Paris, Maine, and received his first Amateur license in 1918. In 1928 he moved to Fall River, Mass., where he worked as a radio service technician and later operated Cushman Radio Company, selling parts and equipment to Radio Amateurs and to the general public.

During World War 2 he served with the U.S. Signal Corps as chief radio engineer at Grenier Air Force Base in Manchester, New Hampshire, installing and maintaining communications

ARRL Report - Continued

equipment. In the Arctic, the Azores, and Bermuda, he helped pioneer the installation of light weight VHF communications radios in military aircraft.

In 1950 he established a business to manufacture and install television antennas. As part of that activity he designed the first Amateur VHF antennas to be sold under the Cushcraft brand name.

During his career Lester Cushman created a number of new antenna designs. "His philosophy was to achieve maximum performance while keeping the design simple," his son Robert Cushman, WA1QFY, said. "He remained an active participant in the Cushcraft Corporation until shortly before his death."

Henry Radio co-founder is Silent Key.

Walt Henry - W6ZN, co-founder of Henry Radio, died December 1, 1991. He was 80 years old. He served in the U.S. Navy in World War 2, retiring as a captain in 1961. He then joined with his brother Bob in the Henry Radio business. Their brother Ted Henry still managed the Henry Radio Store in Anaheim, California.

Bill Carter - KM5R is Silent Key

On October 27, 1991, KM5R was completing his operation in the CQ Worldwide DX Phone Contest. There was a problem with one of the antennas on his 60-foot tower.

"You know how these radio guys are," his wife Cindy says. "Something doesn't work right and they need to fix it. Right now."

Bill Carter climbed his tower, without a climbing belt, and fell. He was taken immediately to a hospital, but he never regained consciousness and died two weeks later.

The New Yorker Profiles N2KS.

Kenny Schaffer - N2KS, is the subject of a lengthy profile in the December 2, 1991 issue of The New Yorker. Schaffer, a vice-president of Belka International, a small consulting company founded in 1986, is involved in a number of business projects in the former Soviet Union.

The magazine paints a picture of how Schaffer's lifelong interest in radio has influenced his career (which includes, among other things, the invention of the wireless stage microphone). He became particularly

interested in the Soviet Union when he installed a dish antenna atop his Manhattan apartment building and began watching Russian television.

When Schaffer was ten, his father bought him a thirty-dollar Heathkit shortwave radio. "It was the best present I ever got," he says. He taught himself Morse code, and from his bedroom he tuned in the world. He especially loved listening to the Soviet satellite Sputnik, which continuously beeped out the word "hi" in Morse code. . . . the idea of conversing with the objects in space and with strangers on other continents appealed to Schaffer immensely, and he spent most of his spare time either listening to his set or taking it apart and putting it back together.

You can't buy this kind of publicity in a major magazine. The New Yorker is available at many local libraries.

1992 School Club Roundup.

Looking for an activity that will spark interest in your students, sharpen their competitive edge and provide them with days of fun? Enter next year's School Club Roundup!

1991's fifth annual Roundup was an overwhelming success with school entries jumping 330%! The Roundup, sponsored by the Council for the Advancement of Amateur Radio in the New York City Schools (CAAR/NYCS) and the ARRL, helps students compete with, and meet, other students not only from the us. but also around the world! Students make as many contacts as they can within a given period of time. 1991's three top contenders are:

Cubs Amateur Radio Society, WY7Q, of Sedro Woolley High School, Sedro Wooley, Washington, who won for the second year in a row, topping last year's record score by more than 50%! What makes this win very special is that only students operated. Club advisor Bob Mullen, KC7UH, just supervised.

Second place went to Joe Fairclough, WB2JKJ, of JHS 22 in New York City, with third place awarded to Larry Luchi's (W7KZE) group, Tech-Trons Amateur Radio Club, Sno-Isle Vocational Skills Center, Everett, Washington.

Don't miss 1992's School Club Roundup, which takes place the week of February 10-14. Send inquiries to CAAR/NYCS, c/o Lew Malchick, N2RQ, Brooklyn Technical HS, S Elliot Pl and Dekalb Ave, Brooklyn, NY 11217.

ARRL Report - Continued

And Another Roundup.

Another annual contest your students can operate in is the Novice Roundup. Although designed especially for Novice and Technician operators, it also involves participants from all other license class holders. The Novice Roundup, unlike the School Club Roundup, takes place over a nine-day period, with a maximum of 30 hours allotted operating time. Participants have fun practicing their Morse code (plus all other modes) and build confidence on-the-air. Besides being rewarded with sharpened operating skills and days of fun, all participants receive an attractive certificate.

Look for 1992's Novice Roundup beginning on January 25 and running until February 2.

A Bright Idea.

Have you ever contacted your local utility company to find out about their educational materials? Here's an example of what Northeast Utilities, a Connecticut-based light and power company, offers. Teacher resource kits, designed to develop students' science skills, include "Energy Transformations," "Generating Electricity" and "Experiments with Electricity." Each kit, written for a specific age group, contains a full-color, 8- or 16-page student booklet, a reproducible quiz and a teacher's guide. Call your local utility company and find out what they have to help you!

Leads Sought in Bogus SOS - from NOVA?

The FCC is investigating a fake radio distress signal which resulted in the deployment of a U.S. Coast Guard helicopter and ship to the Duck, North Carolina area, during severe conditions the Commission has said.

On November 10 at approximately 10p.m. EST an Amateur Radio operator heard a distress call from a station identifying itself as KD4NTT, according to the FCC (this call has not been issued). Transmissions from the alleged station in distress indicated that a boat had run aground and was taking on water on a reef 20 miles east of Duck, NC. The amateur who heard the message alerted the Coast Guard.

"Deployment of the helicopter and Coast Guard ship, particularly under the severe weather conditions that existed, directly placed Coast Guard personnel at great personal risk," the FCC said.

FCC believes the false distress signal was transmitted from the northern Virginia area. The FCC asks that anyone with information concerning the matter contact the Commission.

Briefs.

- The ARRL will host an educational workshop in conjunction with the Miami Hamboree on Friday, Feb. 7 and a youth forum on Sunday, Feb. 9, at the Miami Airport Marriott. For details contact the ARRL Educational Activities Department.

- The International Amateur Radio Union Region 2 Monitoring System is upgrading its monitoring services in the Spanish-speaking areas of Region 2 and needs assistance in translating English to Spanish, particularly the IARU Monitoring Service Manual and Handbook. Some 50 pages of semi-technical material remains to be translated. If you can help, write to Mark Allen - WJ7X, PO Box 451, Chanhassen MN 55317.

- The Radio Club of America on November inducted new fellows, including three ARRL officials: Atlantic Division Vice Director Kay Craigie-KC3LM (now WT3P); and Roanoke Division Director John Kanode-N4MM, and Executive Vice President David Sumner-K1ZZ. The presentations were made at the Club's 82nd anniversary dinner and awards presentation in New York City.

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Rotate Torque Ft/Lb	43	116	160	37	50	57	143	215	287	67	83
GD ² KgM ²	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Ant. Inertia	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Brk/Static Torque Ft/Lb	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load in Tower (lb)	10	25	25	11	22	27	27	33	38	15	20
Mast mount	4	5	7	5	9	12	12	15	16	7.5	10
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	65	40	77	80	60	60
Rev Delay	None	2 sec	3 sec							None	None
Preset	Oct 3	Oct 3	yes	no	no	Oct	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 120V 60Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia.	2-2.5 in	2-2.5 in	2-2.5 in	2-2.4 in	1.6-2.4 in	1.6-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical max. load #	880	1540	1540	660	1100	880	1760	1760	2200	400	800
Rotor wire	13	17	20	7.5	9	11	11	13	39.5	24	28
Brake type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center mast clamp	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Special notes	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Pricing (\$)	\$269.00	\$449.95	\$799.00	\$209.95	\$399.00	\$589.00	\$679.00	\$1099.00	\$272.00	\$369.95	\$439.95
With Preset	\$379.00	\$528.95				\$663.00					

Notes:

- Turns Triband 4700 in 35 seconds
- T2X and HamIV have same motor and gear train parts
- 120V normal 220V special order

- Variable speed 40 sec max
- EEB prices as of 5/91 subject to change
- Wind Load in Sq. Feet

- Variable speed w/SCR constant rotational torque at any speed
- 120/220 taped transformer

THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

CREATIVE DESIGN ROTATORS

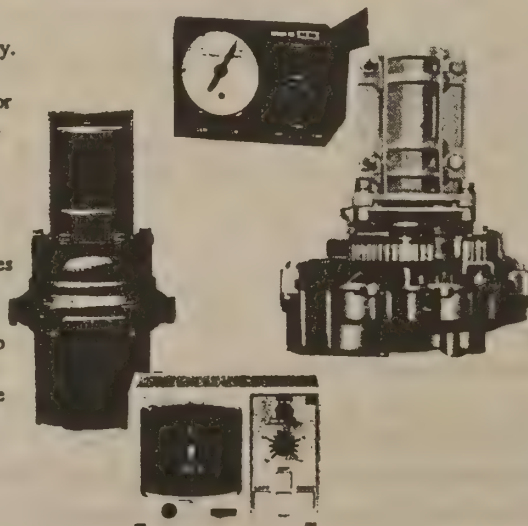
CREATE is serious about long term reliability. The CREATE RC5 series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

ROTOR FEATURES OF RC5 SERIES

- * Large strong reduction gear system provides long term reliability during years of rugged operation.
- * Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions.
- * Cast and machined aluminum case provide the strength required for long lasting service.
- * Mast clamp guides for ease of mast installation.

CONTROLLER FEATURES OF RC5 SERIES

- * Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees.
- * Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system.
- * Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east).
- * Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD² formula considers your antenna (s) weight, boom and longest element length. The EMOTO sheet is in metric so one must convert weight 2.2lbs= 1kg and length in meters 3.3ft=1 meter. Calculate your GD² than compare EMOTO GD² spec above.

$$GD = W \times \frac{L+B}{12}$$

Where: W: weight of antenna (kg)
L: length of longest element (m)
B: length of boom(m)

GD² EXAMPLES: KgM²

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.

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DX DX DX

John Kanode, N4MM

NEW DXCC COUNTRIES. With all the changes taking place in the former USSR, now the CIS and in Yugoslavia, some have asked when and how the ARRL DXCC Countries List will reflect these events. Unless some of the republics in the CIS merge, divide or change their borders, there will be no changes in this area. If some change their name only, that will be changed on the DXCC List but will not result in any new or deleted countries. The Yugoslavia situation is a different story. If the country is broken up into separate states and they gain acceptance, there will be some added countries and a possible deletion. These changes, if they take place, will not happen automatically. They will have to be run by the DXAC and then by the ARRL HQ Awards Committee.

DX CONTESTS FOR FEBRUARY

February 8-9	Dutch PACC Contest
February 15-16	ARRL International DX Contest CW
February 21-23	CQ WW 160 Meter DX Contest Phone
February 22-23	UBA Contest CW
February 22-23	REF French Contest Phone.

UPCOMING DXPEDITIONS

Revillagigedo XF4	February 4-19
Kermadec Is. ZL8	March 10
Afganistan YA5MM	Feb/March
Belau KC6	March 1-15
Christmas Is. VK9X	February 11-24
Clipperton Is. FO0CI	March 8

KNOW YOUR BAND EDGES. Most Amateurs know what the phone sub band edges are for the traditional bands, however many seem to be ignorant to the phone sub band edges of the new bands, especially 12 and 17 Meters. The lower phone band limit for US amateurs is 24.930 MHz and 18.110 MHz. Some DX stations insist on operating phone below these limits. Although their licenses have no restrictions on this, it is in violation of the IARU band plans and is considered poor operating on their part. For US stations, it is a FCC violation also. Another band edge problem has been observed. In the recent 10 Meter contest, several DX stations insisted on operating on 28.300 MHz or slightly below and many US amateurs in their zeal to work these stations were operating out of the limits of their license. If this situation continues, action will be taken to disqualify those who operate in this manner. 10 Meters is the biggest HF band that we have and there is no need for this kind of operating.

FEBRUARY MEETING. The National Capital DX Association will have a meeting on February 22, 1992 at 6 PM at the Anchor Inn in Wheaton, MD. Contact Mike Cizek, KO7V or Craig Stevens - KZ3H for more info. Also there will be persons at the Winterfest on February 23 to check QSLs for initial applications of DXCC, all VUCC awards, all WAS awards, CQ DX awards and WAZ.

Foundation Meetings

The Foundation for Amateur Radio, Inc. meets at 8:00 p.m. on the second Wednesday of each month.

Visitors are always welcome

Phone (703) 536-8469 for information

The next meeting will be on February 12 in Takoma Park, Maryland
Columbia Union College Science Building Auditorium, Flower Avenue
Talk-in on 147.18

Voice of America 50th Anniversary QSO Party

The Voice of America Amateur Radio Club (club station K3EKA) will coordinate a QSO party lasting from 0000 UTC 1 February 1992 through 2359 UTC 29 February 1992 to commemorate VOA's 50th anniversary. Lead stations are to be designated at present and former VOA relay stations in the U.S. and overseas.

The objective in the VOA-50 QSO Party will be to work as many amateur stations as possible operated by active, retired, and former employees of the U.S. Information Agency (USIA, the parent agency of the Voice of America), the Department of State, the Agency for International Development, Radio Free Europe/Radio Liberty, or by USIA contractors. Credit will also be given for contacts with members of the Piscataway (NJ) Amateur Radio Club, whose annual event commemorating the former VOA relay station in the area inspired the VOA QSO Party. Depending upon category, the above stations will be worth 1, 2, or 3 points. The point count will be given during each QSO.

- Exchange signal report, QTH, and (if applicable) point count.
- Stations may be worked only once for credit.
- Transmitting amateurs and SWLs determine their final scores by adding together the number of points earned; there are no multipliers.
- Operators of U.S. stations worth credit will add "/VOA" after their call.

A special QSL card will be available for K3EKA and possibly other stations.

Certificates will be sent to high-scoring stations in each DXCC country and in each state, province, and territory in the U.S. and Canada.

Suggested frequencies ($\pm$ QRM):

CW: 3550, 3725, 7050, 7125, 14050, 21050, 21150, 28050, 28150 kHz.

SSB: 3920, 7260, 14316, 21416, 28416 kHz.

Send reports by 30 April 1992 to Voice of America Amateur Radio Club (K3EKA), c/o VOA Mail Room - Code 73, U.S. Information Agency, Washington, D.C. 20547.

As of press time, the following stations, in addition to Voice of America ARC club station K3EKA and Department of State ARC club station W3DOS, are expected to participate:

Bethany: KC4QG (Dave Sites) will be the lead station.

Belize: Special-call station V31VOA is to operate during the VOA QSO party. Amateurs at post are Fred Haney, V31LU/AC4IC, Gary Shirk, V31KX/KA3OYY, and Scott Williams, V31SW/AE6U. Belize plans to be maximally "radioactive" during the VOA QSO Party.

Philippines: Special-call station DX2VOA is to operate. Four stations in all will participate, including W7LUU/DU1, operated by Tom Wojciechowski.

Elmer's Corner

By Scott Schaefer - WR4S

This column will be devoted to guiding new Amateurs through some of the common questions and problems encountered by all of us in our hamming endeavors. Many of the questions that come up regard the virtual plethora of equipment that is available on the market. I plan to give a brief synopsis on what's out there and what are the best buys for a new Amateur. I will also try to help out on problems pertaining to setting up a station. Send us your questions and we will try to provide the answers. Any input that might be helpful to newcomers will also be most welcome.

Write or phone me at 107 Melody Lane S.E., Vienna, VA 22180 (703) 255-7264

We ended up last month talking about coaxial cable and I suggested the use of RG8X (also called mini-8 and a few other names) for most applications with runs up to a hundred feet or so. A nice feature of RG8X is its power rating, allowing the use of an amplifier at a later date without having to upgrade your coax, as well as its flexibility allowing its navigation in tight spaces where the larger (and stiffer) coaxial cables might not work as well.

When the time does come for you to up your output power level, it is common practice to graduate to the RG8 style of coax for a variety of reasons. The simple fact that there exists a larger distance between the center conductor and the braid gives me a boost of confidence. RG8 style coax does exhibit lower loss characteristics as well as the capacity to handle higher induced voltages before breaking down. Foam dielectric type of RG8 is the lightest and most flexible of the group. (DIELECTRIC: the insulating material between the center conductor and the "braid") In situations where the coax will be buried, RG213 (also referred to as MIL-SPEC), will last longer due to the non-contaminating outer jacket that resists the chemical reaction that occurs. I have used another style of RG8 for a few years - RG214. This is an expensive choice but due to its double shielded braid it helped overcome an interference problem. Another of the RG8 group that has received a lot of press lately is made by Belden and called 9913. Its claim to fame is its low loss at VHF/UHF frequencies. After being on the market for a few years and being praised, problems surfaced regarding 9913's usable lifetime because of moisture problems. Weather-proofing all weather exposed connectors is a good rule to follow in any case.

Speaking of coax connectors, again the new ham is presented with options and

alternatives. The three common types of connectors in use in the ham trade are the "PL259" or "UHF" connector, the "BNC" and the "N" style. The "BNC" connector is used as the antenna terminal in most handheld VHF/UHF rigs. Connectors are made to mate together and (I'm sure only by coincidence) are referred to as "male" and "female." The connector on the top of a handheld is a "female BNC" while the male side is represented on the bottom of the "rubber ducky" antenna. If you have to make a connection to a BNC style, a reasonable alternative to learning to solder a male BNC is the use of an "adaptor connector." "Adaptor connectors" are magical little friends in the hobby that allow the quick change of not only the sex of a coax connector but also the type.

The "N" type connector is used in higher frequency ranges where even the slightest amount of loss is undesirable. When you reach that point in the hobby, learning how to assemble "N" type connectors is necessary, but until then, an adaptor connector is a time saving choice. Hi.

The most widely used connector in hamming is the "PL259" or "UHF" type found on most Amateur "HF" rigs. Within the PL259 type family, the ham is once again presented with choices. The cheapest PL259s are nickel plated and tough to solder. It's worth spending another half buck to get the next best which are silver plated and much friendlier to work with. The most expensive PL259 uses teflon for the insulating material as well as silver plating, the power handling capacity of the connector is increased, but in most applications the extra expense might not be necessary.

Next month we'll talk about soldering.

Scott - WR4S



New

Model DJ-F1T

The Miniature VHF/FM Handheld Transceiver

A super-compact handheld about half the size of a regular HT, the tiny DJ-F1T is a powerful communications station which fits literally in the palm of your hand.

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FOUNDATION FOR AMATEUR RADIO
Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS
1992

NOTICE: If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

EXAMS

- Jan 28** Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration requested
Contact: John Kohl, KO4A (410) 757-8148
- Feb 1** University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins
Contact: Scott Rosenfeld - NS3I (301) 206-9921
- Feb 8** Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Mt. Vernon ARC (Alexandria, VA) Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510
- Massanutten ARA (Harrisonburg, VA) (ARRL VEC) Walk-in
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)
- Feb 15** Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC)
Contact: Bill Runyon, N4BDH (804) 487-8611
- Feb 22** Vienna Wireless Society (Vienna, VA) (ARRL VEC) Walk-in
Contact: Ron Natalie, WO2L (703) 620-1727
- Feb 26** Maryland Mobileers ARC (Glen Burnie, MD) (Laurel VEC) Pre-registration requested
Contact: Jerry Gavin, NU3D (410) 761-1423
- Mar 7** Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- South Peninsula ARC (ARRL VEC)
Contact: Ed Brummer, W4RTZ (804) 898-8031
- University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins
Contact: Scott Rosenfeld - NS3I (301) 206-9921
- Mar 14** Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510
- Mar 21** Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

(Continued)

Volunteer Examiner Cooperative - Continued

- Mar 31 Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration
Contact: John Kohl, KO4A (410) 757-8148
- Apr 4 Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC Walk-in
Contact: Andrew Swanson, WJ4X (804) 253-2811
- University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins
Contact: Scott Rosenfeld - NS3I (301) 206-9921
- Apr 11 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510
- Massanutten ARA (Harrisonburg, VA) (ARRL VEC)
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)14
- Apr 18 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Apr 20 Herndon Repeater Group (Herndon, VA) (ARRL VEC) Walk-in
Contact: Mike Weber, WB8RDN (703) 450-2304
- Apr 29 Maryland Mobileers ARC (Glen Burnie, MD) (Laurel VEC) Pre-registration
Contact: Jerry Gavin, NU3D (410) 761-1423
- Timonium Hamfest (Timonium, MD) Pre-Registration Requested
Contact: Les McClure, W3GXT (410-833-8667
- May 2 Portsmouth ARC May (Portsmouth, VA) (ARRL VEC)
Contact: Art Thiemens, AA4AT (804) 484-2857
- University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-ins
Contact: Scott Rosenfeld - NS3I (301) 206-9921

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

NOTE: All examinations require that you submit:
Copy of your current Amateur Radio license (bring original)
Completed FCC Form 610.
Check for appropriate examination fee.
Fees of individual VEC may vary.
ARRL VEC Exam fee is \$5.40
W5YI VEC Exam fee is \$5.40
Laurel VEC Exams, all tests are free.
Mountain VEC Exams, all tests are free

This schedule of examinations appears each month in Auto-Call Magazine
Sponsored by the Foundation for Amateur Radio

Training Classes

Robert Armstrong, WA4SQL

44 South French Street, Alexandria, VA 22304

Phone (703) 751-2294

Novice and Technician Training Class, California, MD, Starting January 21. Sponsored by Southern Patuxent Amateur Radio Club. The 10 weeks class will meet from 6:00 to 8:00 p.m. every Tuesday in the Latterday Saints Church meeting room on Rolling Road (Behind K-Mart). For more information call Dwayne Kincaid - WD8OYG at (410) 586-2177.

General through Extra Training Classes, Alexandria, VA, Starting January 27. Upgrade license course sponsored by Mount Vernon ARC and Alexandria ARC. High speed CW (20 wpm) will be emphasized. Classes will be held on Monday evenings at 7:30 p.m. starting January 27 and will run for approximately 17 weeks. There is no charge for the class, but students will be expected to supply their own ARRL License Manual. For further information and location of class, contact John Forrest - WZ4A (703) 971-3905.

Novice/Technician Training Classes, Stafford, VA, Starting January 29. Sponsored by the Stafford County Schools Adult Education Program. Classes will be held on Wednesdays at 7:00 p.m. - 8:00 p.m. for ten weeks. Rockhill Elementary School, 50 Wood Drive, Stafford, VA. For information contact Jerry Mullinix - AC4HK (703) 659-9418

Novice Training Classes, Anne Arundel, MD, Starting February 1. Sponsored by the Anne Arundel Radio Club. Classes will be held from 9:30 to Noon each Saturday. For further information contact Holly Bevan - N3BMB (301) 923-0229.

General through Advanced, Woodbridge, VA, Starting February 6. Sponsored by Woodbridge Wireless, Inc. A free 14 week course starting at 7:30 p.m. every Thursday at Our Lady of Angels Church, Woodbridge, VA. Morse Code instruction - beginner thru 13 wpm. Students will need to obtain ARRL License Manual. For information contact Loyd Davis - K8EI at (703) 360-0248.

No-Code Technician Training, Manassas, VA, Starting March 17. 7:30 p.m. Sponsored by Old Virginia Hams ARC. Classes held at Stonewall Jackson High School, Manassas, VA., and will last about 12 weeks. For information, contact John Fritsch - N4YOB (703) 791-5995.

General Class Training Course, Herndon, VA, Starting March 28. Sponsored by the Herndon Repeater Group. A free 6-week course (code and theory) on Saturday mornings from 9:00 a.m. until 12:30 p.m. from March 28 to May 2. Applicants must have a Technician Plus license and copy of the newly updated ARRL General Class license manual. The course will be limited to 35 students. Contact Mike Weber - WB8RDN (703) 450-2304.

Math Seminars, Herndon, VA, April 11 and April 18. Sponsored by Herndon Repeater Group. HRG will sponsor two one-day Math seminars to review mathematics skills needed for the Advanced and Extra Class exams. The Advanced seminar will be held on Saturday April 11 from 12:30 p.m. to 2:30 p.m. The Extra seminar will be on Saturday April 18 from 12:30 p.m. to 2:30 p.m. These seminars are free and are timed to meet the May 9 Examination opportunity. Contact Mike Weber - WB8RDN (703) 450-2304.

Novice through upgrades, Sterling Park, Starting in the spring. Dates and times will be dependent upon need and availability, and coordination within the local area. If interested call Mark Johnson - WS3N (703) 430-3804.

*Please keep Auto-Call advised of Training Classes
See next page for additional information*

Training GENERAL INFORMATION

Alexandria Radio Club
Anne Arundel
Arlington ARC
Baltimore ARC
BRATS
Chaverim, Inc.
Fauquier ARC
Frederick ARC
Herndon Repeater Group
Laurel ARC
MADRAS
Maryland Mobileers
Montgomery ARC
Mount Vernon ARC
NASA/Goddard ARC
Ole Virginia Hams
Pentagon ARC
Rock Creek ARA
St. Mary's County ARA
Shenandoah Valley ARC
Southern Maryland ARC
Southern Patuxent ARC
Stafford Adult Education
Sterling Park
Tri County ARC
Vienna Wireless
Woodbridge Wireless

John Forrest - WZ4A (703) 971-2905
Tony Young - WA3YLO (301) 262-1917
Fred Bardsley - WD4DHW (703) 533-0372
Phone 1-800-HAM FEST - VB
Al Dixon - N3HOE (301) 833-5735
Bob Teitel - W3IDT (301) 654-3484
Bill Mills - KC5PF (703) 937-4090 (H), 818-3955 (O)
Steve Bauman - W3FOA (301) 662-4552
Michael Weber - WB8RDN (703) 450-2304
Pud Reaver - W3DQI (301) 498-6293
Larry Ziecheck - N3GKZ (301) 984-6112
John Baugus (301) 551-3161
Ken Nichols - KA3KGL (301) 977-5405
John Forrest - WZ4A (703) 971-3905
Vikki Gigante - KA3PVS (301) 249-2609
John (703) 791-5995
David Boyd - K9MX (703) 756-1817
Walt Ramsey - AK3B (301) 949-3954
Call (301) 862-2214
Guy Black - W4PSJ (703) 722-4952
Vic Curtis - WA3YUV (301) 888-1388
Dwayne Kincaid - WD8OYG (301) 586-2177
Jerry Mullinix - AC4HK (703) 659-3905
Mark Johnson - WS3N (703) 430-3804
Al Sines - WA3QGA, Box 710, College Park 20740
Paul Wilkins - AB4CY (703) 560-2779
Loyd Davis - K8EI (703) 360-0248

VIRGINIA TRAFFIC TRAINING NET - 3685 kHz 6:30 p.m. daily. 5 - 8 wpm.

SLOW CODE PRACTICE NET, 28.250 MHz 7:00 to 8:00 p.m. Wednesdays. Sponsored by Woodbridge Wireless, Inc.

What is Amateur Radio?

Amateur Radio, also known as "ham radio," is communicating. Hams, who must be licensed by their governments, operate two-way equipment from their homes and cars. They communicate with other hams across town or across the world on special sets of radio frequencies, or bands, that are set aside for Amateur Radio use.

Who are hams?

Just about anyone can be a ham—there are no age limits. Many people with disabilities find a door to the world in Amateur Radio. Some famous people are hams, but most are just people from all walks of life who like making new friends around the world.

How can I become a ham?

Getting a ham radio license is easier than you may think. In the US, the Novice (beginner's) license requires only passing a 30-question written exam on basic electronic theory and FCC rules and regulations, along with copying and sending Morse code at five words per minute. The new codeless

Technician class license requires passing two written tests with a total of 55 questions.

The American Radio Relay League (ARRL) offers a wide variety of information for persons interested in radio communication. We can also provide you with a list of clubs and instructors in your area. Many local Amateur Radio clubs offer licensing courses several times a year.



For a prospective ham packet, contact the
ARRL, Dept Q, 225 Main St, Newington, CT 06111, tel 203-666-1541.

Public Service Report

Hank Black - N3ESR

(301) 340-8595

Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.090 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860. Deadline for receipt of material is the third of the month.

Deadline for receipt of material is the third of the month.

NIH RADIO AMATEUR CLUB ASSISTS YMCA IN TURKEY CHASE

In response to a request from the Bethesda-Chevy Chase YMCA, National Institutes of Health Radio Amateur Club (NIHRAC) members met at 7:15 a.m. on Thanksgiving at the BCC YMCA off Old Georgetown Road at Beech Avenue.

The purpose of the NIHRAC's participation was to receive and relay reports of injuries or other problems occurring around the course, much of which traversed the NIH reservation. NIHRAC Amateur Radio operators were dispatched to check points around the course.

Although NIHRAC members awoke to cool weather, the morning warmed to a pleasant temperature. NIHRAC volunteers arrived at the YMCA lobby and met coordinator Ed Fones who passed out caps and shirts to identify members as "Volunteer Turkey Chasers." From there the radio operators moved out to their assigned posts.

At 8:30 a.m. the two-mile "Fun Run" began and the 10K race started about 20 minutes later. More than 1,000 runners participated. The 10K course was the same as the previous year. The ground was dry and no falls were reported. One runner suffered an injured finger nail and one collapsed (possibly from dehydration) at the finish line. Other problems encountered by radio operators were handled efficiently using the UHF and VHF NIHRAC repeaters.

NIHRAC volunteers were: Bill W3QBC, John W3QF, Larry W3IBO, Andy WA3LTJ, Gary KD3IQ, Charlie WA3BHO, Mike KA3GSV, Seth N3JFW, and Ira N3JOQ.

- Submitted by Dan Reggia, N3ENT

CQ SANTA !!

One of the most heart warming Public Service Events on SMARC's calendar is CQ SANTA. On Dec. 21, 1991 SMARC received notice that about 12 children would be stuck in Southern Maryland Hospital over the Christmas Holiday Season, so on Dec. 22, some of SMARC's members were called on to help out in Operation CQ Santa.

SMARC members provided a two-meter link from the children's hospital beds to Santa Claus at the North Pole. These kids' sullen faces broke out in the biggest heart warming smiles with sparkling eyes when they found out that Santa had not forgotten them.

Thanks to the Camp Springs ELKS Lodge for making this operation a real success. The ELKS provided some major league toys for the children on very short notice. Thanks also to the SMARC members who came out for the event: Kelly KA3MVU, Bob KA3GCC, Vic WA3YUV (Santa Claus), Brian N3KYY, and Ray WI3A. More clubs should consider a CQ Santa operation for their local hospital next Christmas time. This was a very easy and extremely rewarding event.

The gift of happiness is one of the most rewarding things to give or to receive, and cheering up a sick child at Christmas time brings an awful lot of happiness to all involved.

- Submitted by Ray Simpson, WI3A

Public Service Report - Continued

NEWS FROM VIRGINIA ARES/RACES

A full-scale Virginia Operational Plan Exercise (VOPEX) is planned involving the North Anna Nuclear Power Plant in Louisa County, VA, for January 15, 1992. Virginia RACES personnel are scheduled to provide communications using VHF voice and packet, and HF voice modes from the Virginia primary Emergency Operations Center (EOC), and the EOCs for Louisa, Spotsylvania, Hanover, Caroline, and Orange Counties.

The Evacuation Assembly Areas (EAC) for Louisa, Hanover, Orange, Carolina, and Spotsylvania Counties, and Louisa Emergency Operation Facility (LEOF), the VDOT facility at Louisa, and the Innsbrook Technical Center will also be manned with RACES operators. A summary of operations will appear in a future issue of *Auto-Call*.

- Submitted by Steve Czaikowski, WB4ZTR, VA Section EC

See page 53 for list of ARES/RACES Leadership

NEWS FROM SKYWARN NET MANAGER

On December 21 the National Weather Service (NWS) in Washington, DC issued a flash flood watch for a large area from Roanoke, Virginia, northeast through West Virginia to Hagerstown, MD.

The NWS contacted the SKYWARN Net Manager, KC4OCG, by telephone and faxed him the special weather statement. The statement was announced on the Northern Virginia traffic net at 7:30 p.m. on the 147.300 WA4TSC repeater. The Emergency Coordinator's pagers were set off and an informational EC net was held at 9 p.m. on the 146.91 NVFMA W4XG repeater. Over 30 Amateurs located throughout the watch area checked into this net. An updated special weather statement was read and a number of Amateurs in the watch area had specific questions about the situation.

Questions were relayed to the NWS and responses were given to the Amateurs during nets later that evening. Since the storm was expected to move slowly, brief follow-up nets were held at 10 p.m., 11 p.m., and 12 a.m. as well as 7 a.m. the next morning on the 147.300 repeater. Although heavy rains were experienced, river flooding was not a threat due to the ongoing drought condition. The Net secured with the 7 a.m. weather net and the participants were thanked. The procedure of brief hourly check-in nets worked well and will be used again in future slow moving storms.

On December 11 the Trustees of the Foundation for Amateur Radio, Inc. unanimously voted in favor of granting \$2,500 to properly equip the SKYWARN Amateur Radio station at the NWS. A Memorandum of Understanding between FAR, The Northern Virginia Radio Club, Inc., the SKYWARN Net Manager and the National Weather Service, governing the implementation of the grant, was discussed in detail and approved. The highlights of the purposes of the grant are as follows: 1) The Washington Forecast Office has been set up as the model for the "modernized" weather forecast offices of the future; 2) the Washington Forecast Office has traditionally relied upon the SKYWARN Amateur Radio program to assist in its mission of saving lives and property; 3) the Washington Forecast Office will frequently be visited by members of the United States Congress, representatives of federal, state and local governments and all forms of national and international media and provides an excellent opportunity for the Amateur Radio community to demonstrate its unique ability to provide skillful, organized and useful volunteer communications; 4) SKYWARN Amateur Radio program is in place in the Washington Forecast Office and is supported by a trained and active Amateur Radio community in the area represented by the organizations that make up FAR; 5) the 2-meter, 440, packet and possibly HF gear that will be purchased with the grant money will immediately be put to use serving the public, the NWS, and the Amateur Radio community.

FAR, the groups that make up FAR, and the Amateur community are thanked for their continued support of the SKYWARN Amateur Radio program. It is hoped to have the newly outfitted station in full operation before the FEMA and NWS Hurricane drill in March 1992 in which Amateur Radio is expected to play a significant role!

- Submitted by Dan Gropper, KC4OCG, SKYWARN Net Manager.

T-MARC

The Middle Atlantic FM and Repeater Council

RECENT T-MARC COORDINATIONS

The Montgomery Amateur Radio Club's 2-meter repeater in Rockville was re-coordinated from its old frequency of 146.640 MHz to a new frequency of 146.955 MHz. T-MARC coordinated a proposed new 443.000 MHz repeater to N4LXI at Herndon, VA. The Mountain Amateur Radio Club received coordination for its proposed new 444.500 MHz repeater on Dan's Mountain near Cumberland, Md. A proposed new 443.250 MHz repeater was coordinated to W3GQP, at Wilmington, Del.

Coordination was canceled to N4EZV who had a proposed new 923 MHz spread-spectrum repeater in southern Maryland which never came to fruition.

FREQUENCY COORDINATING COMMITTEE

The following is a list of members of the T-MARC Frequency Coordinating Committee whose members are available for assistance with coordination matters:

Chairperson:

Bill Werner, WA3EAO
1309 Ava Road
Severn, MD 21144
410-551-9046

Secretary:

Gary Hendrickson, W3DTN
1419 Larch Road
Severn, MD 21144
410-551-7913

Tom Abernethy, WA3TAI
1133 Apple Valley Road
Accokeek, MD 20607
301-292-6263

Ed Macon, KB3VX
3142 Old York Road
Whitehall, MD 21161
410-329-6437

Heru Walmsley, W3WVV
701 Welham Avenue, N.W.
Glen Burnie, MD 21061
410-766-3545

Jim Bennett, KD3BC
1215 Jefferson Avenue
St. Michaels, MD 21663
410-745-3259

Greg Malinski, WA3WLO
410 Gillespie Street
Baltimore, MD 21225
410-789-8110

Packet Liaison:

Ken Nichols, KD3VK
213 Oakton Road
Gaithersburg, MD 20877
301-977-5405

Hank Black, N3ESR
105 North Van Buren Street
Rockville, MD 20850
301-340-8595

Chris O'Brien, KA3TQD
12510 Molly Berry Road
Upper Marlboro, MD 20772
301-888-1570

Stan Staten, W3INK
12012 Cheyenne Road
Gaithersburg, MD 20878
301-977-7987

Bill Boston, N3DCI
Box 14
Savage, MD 20763

Elton Sanders, WB5MMB
404 Park Street, S.E.
Vienna, VA 22180
703-281-1298

George Stickler, KA3DXX
8249 Quarterfield Road
Severn, MD 21144
410-551-7657

Bruce Carpenter, W3YVV
Post Office
Harmans, MD 21077
410-766-8851

John Sichert, KA3LAO
6636 Washington Blvd, Lot #14
Elkridge, MD 21227
301-596-5363 (Laurel)
410-796-8495 (Baltimore)

Rick White, KA3T
115 Village Way
Mt. Airy, MD 21771
301-831-7803

Larry D'Anna, WA3KOK
8404 Jandy Avenue
Laurel, MD 20707
301-725-9494

Chuck Sommer, N4OSD
12509 Kemmerton Lane
Bowie, MD 20715
301-464-1018

* K3CZ is currently the ARRL
Atlantic Division member of the
VHF Repeater Advisory
Committee (VRAC).

John Hengen, K3HOI
9128 Windemere Way
Savage, MD 20763
301-498-0515

W. Van Aller, K3CZ*
7623 Old Washington Road
Woodbine, MD 21797
410-795-5124

Local Area Nets

DAILY

1300 VA TRAFFIC NET 7.26 SSB
1800 MD EMERGENCY PHONE NET 3.920/ VA SIDEBAND NET 3.947SSB
1830 VA SLOW NET 3.68 CW
1900 VA NET (EARLY) 3.68 CW/ MD-DC NET 3.643 CW
1915 SHENANDOAH VALLEY EMERGENCY NET 146.82
1930 MD SLOW NET 3.717 CW
2100 VIENNA WIRELESS SOCIETY POW-WOW NET 28.4 SSB
2200 MD-DC NET 3.643/ VA NET (LATE) 3.68 CW
2215 VA LATE NET 3.947 SSB

SUNDAYS

0900 COFFEE NET 50.4 AM
1900 MD 6 METER FREE STATE NET 50.125 SSB
2000 METROVISION ATV AUDIO 144.97
2100 MD-DC-NVA REGIONAL EC NET 146.91

MONDAY

1930 HORSETRADERS 147.03
2000 WOODBRIDGE WIRELESS 147.24
2030 MD MOBILEERS 146.805
2100 HERNDON REP GRP 145.31

TUESDAY

1900 WASH CO 146.94
1915 WESTLINK REPORT 147.18
1930 TRI-COUNTY 147.18/ ARLINGTON ARES 145.47
1930 ST MARYS 146.64/ SPARC 146.985
2000 MT. VERNON ARES 146.655/ MONT. CO RACES-ARES 146.46
2000 SMARC 147.15
2030 ANNE ARUNDEL RC 28.410

WEDNESDAY

2000 GODDARD ARC 146.835/ CCARS 145.11/NVFMA 146.79
2030 LAUREL ARC 147.54 SPX 1ST,3RD,5TH
2100 PG COUNTY ARES 147.18/ FAUQUIER ARC 147.165
2100 1st Wed ASTROMONY 147.03

THURSDAY

1900 FOUR STATE NET 147.09/ WASH CO 147.09
1930 VIENNA WIRELESS EMERGENCY NET 146.685/CARROL CO NET 28.450
2000 ALEXANDRIA RC 147.315/OLE VA HAMS 146.97/SMARC 28.447
2000 BRATS ATV NET 147.03
2030 ANNE ARUNDEL RC 174.105/ DEPT OF STATE 145.19
2100 ALEX ARES 147.315/ VIENNA WIRELESS TRAFFIC 28.01 CW
2100 DX NET 147.03

FRIDAY

2100 BRATS PACKETS NET 147.03

SATURDAY

1200 NVFMA RADIO CLINIC 146.79
1300 AMATEUR INFO NET 147.03
1400 BRATS ANSWER MAN 147.03
2000 MCNRC NET 52.25/53.25 AND 144.95

EMERGENCY ONLY--AS REQUIRED

SKYWARN 147.30
PG WX NET/ SKYWARN 147.18
W/E AND HOLIDAYS

Information provided by Chuck Sommer, N4OSD

Virginia QSO Party

The Virginia QSO Party, sponsored for the seventeenth year by the Sterling Park Amateur Radio Club, is scheduled for 1800 UTC March 12 through 0200 UTC March 23.

Plaques will be awarded to the top scoring Virginia and out-of-state stations, and to the top VA CW Only station, Mobile Station, Club, and Novice/Technician. Certificates go to the high scoring single operator in each state, providence, and DX country, and to all stations scoring 100 or more QSOs.

Rules:

Work fixed stations once per band/mode and Virginia mobiles as they change counties. No cross-mode or repeater QSOs. Mobiles parked on county borders count as one QSO and as many multipliers they offer. Mobile stations count fixed stations only once as multipliers but receive a bonus of 100 points for each different Virginia county in which they have a QSO. Exchange QSO number and QTH - County for Virginia stations; state, providence or DX country for others.

Frequencies:

160 through 2 meters except WARC bands.

Suggested operating frequencies:

CW - 1805 kHz and 60 kHz up from band edge

SSB - 1815, 3860, 7260, 14260, 21360, 28360 kHz

Novice/Tech - 10 kHz up from edge of Novice CW bands and 28360 kHz.

All frequencies plus or minus QRM

Scoring:

Count one point per QSO. To obtain score:

Virginia stations, multiply points by total Virginia counties, other states, Canadian providence and foreign DX countries worked.

Others, multiply points times Virginia counties worked (maximum of 95).

Logs:

Must include name, call sign, and mailing address, and indicate each new multiplier as worked. For club competition, indicate the name of the club. Virginia mobile stations, indicate mobile operation and log QSOs by county of operation. Novices and Technicians, indicate statue as a novice or technician. Indicate a summary sheet and dupe sheet for 200 or more QSOs.

Deadline: Entries will be due by April 15. Mail to Virginia QSO Party
c/o Forrest B. Snyder, Jr. - N4UTY; 805 S. Hoga Street, Sterling, VA 22170

FAR/QCWA Spring Banquet Sunday, May 10

Cross Winds Restaurant, Greenbelt Maryland
Top Round with Mushroom Gravy, Baked Potato
Caesar Salad, Vegetable
Parfait / Apple Strudel
Cart offering seconds
\$20.00 per person

Speaker:

John R. Simpson
1991 Director of the Secret Service

For information and advance reservations, contact:
Tony Young - WA3YLO
12016 Long Ridge Lane; Bowie, MD 20715
(301) 262-1917

1st Annual Cumberland County
"WINTER HAMFEST"
February 29, 1992

Hamfest / Coffee Social / Computerfest

- What:** A winter cabin-fever escape! This event is co-sponsored by CCARS, HRAC, and SMRA. Support your local clubs.
- Great food.
 - Door prizes.
- Donations at the Door are \$5. Reserved tables are \$10; and tables at-the-door, \$15.
- Where:** West Shore Elks
BPOE 2257, Camp Hill, PA
(See reverse side for location and directions.)
- When:** Available for Dealer setup at 6:00 a.m.
Open for General Admissions at 8:00 a.m.
- Who:** CCARS, c/o Joe Shuey - NE3H
3425 Logan Street
Camp Hill, PA 17011
Make checks payable to: CCARS
Information: Call 717/737-6453

Talk-in: 145.27 mhz (N3FUD/R)

Pre-registration Form. Please return by **January 30, 1992**
(If you desire a confirmation or motel information, enclose SASE with form.)

Please accept my reservation for
the following Number of tables: _____

Name

Call (if any)

Street

Phone

(For CCARS use.)

City/State

Zip Code

SRAM-038 (Soviet Radio Amateur Movement)

Edited by Dexter Anderson, W4KM

[Summary translations from the weekly newspaper **SOVETSKIY PATRIOT** ("SP"). Most amateur news in "SP" appears in the columns "**NLD**" (**Na lyubitel'skikh diapazonakh** - On the Amateur Bands), appearing in every issue, and "**EFIR**" ("**AIRWAVES**") (literally "**ETHER**"), appearing monthly. Both columns are edited by Boris Grigor'yevich Stepanov, UW3AX. Text in square brackets and in footnotes is by translator.]

SP #44, October - November 1991, signed to press 29 October 1991:

VII [7th and presumably last] PLENUM OF THE CC DOSAAF USSR

The VII Plenum of the Central Committee of the All-Union Voluntary Society for Assistance to the Army, Air Force, and Navy [**Vsesoyuznoye dobrovol'noye obshchestvo sodeystviya armii, aviatsii i flotu** - DOSAAF] was held 23 October 1991. General-Colonel Nikolay Nikiforovich Kotlovtssev, Chairman, CC DOSAAF, spoke on the reorganization of the Defense Society. General-Major Aleksey Ivanovich Anokhin, Deputy Chairman, CC DOSAAF, spoke on changes in the DOSAAF Rules.

The Plenum transformed the CC DOSAAF USSR into the Central Council of the Union of Defense Sport-Technical Organizations (Societies) of the USSR -- SOSTO [**Soyuza oboronnykh sportivno-tekhnicheskikh organizatsiy (obshchestv) SSSR**].

In connection with his forthcoming release from active military service, the Plenum released General-Colonel N. N. Kotlovtssev from his duties as Chairman of the Central Council of the Union of OSTOs of the USSR.

The Plenum elected General-Colonel Ye. I. Krylov Chairman of the Central Council of the Union of OSTOs USSR and member of the Central Council and of its Presidium and Bureau. It elected Colonel A. Ya. Shcherbakov First Deputy Chairman of the Central Council.

Yevgeniy Ivanovich KRYLOV

Born 16 September 1935 in Pushkin, Leningradskaya Oblast'. In Armed Forces since 1954. Tank Corps.

Aleksandr Yakovlevich SHCHERBAKOV

Born 14 September 1947 in village of Razdol'noye, Penzenskaya Oblast'. In Armed Forces since 1967. Corps of Engineers.

EFIR-[#03 assumed]/1991: "WANTED, FOR SALE, EXCHANGE"

For Sale (price 10 rubles): List of addresses of Soviet amateurs serving as QSL managers for foreign stations, containing 90 addresses of managers serving 430 DX stations. Rapid and quality search for the manager based on "CBA-90" [Callbook?], W6GO LIST, and other sources. Ten kopecks in colorful postage per address. From V. Korolev, UA9CVG, 9-a V. Cherepanov St., Apt. 49, 622022 NIZHNIY TAGIL (Yekaterinburgskaya Oblast').

"SILENT KEY" ["ZAMOLCHAVSHIY KLYUCH"]

Aleksandr Malygin, 4K4AB, a professional radio operator at the radio center of the airport on Dikson Island in the Arctic, has become a Silent Key. His son Vladimir, 4K2BDU, is also an Arctic radio operator, on Kheys Island¹ in Franz-Josef-Land.

¹Possibly named after Isaac Israel Hayes (1832 - 1881), an American physician and Arctic explorer who sought to prove the existence of open seas around the North Pole. Can anyone confirm this? And who was Dikson (Dixon)?

SRAM-038 - Continued

SP #44, October - November 1991, signed to press 29 October 1991:

"GETTING READY FOR INDEPENDENT ACTIVITY, WHAT'S AHEAD?"
by Stanislav Aslezov, Special "SP" Correspondent

The DOSAAF organization of the Byelorussian SSR has been transformed into the OSTO [Oboronnoye sportivno-tekhnicheskoye obshchestvo - Defense Sport-Technical Society] of the Republic of Belarus' by the VIII [8th] Extraordinary Congress of DOSAAF of the Byelorussian SSR, meeting in Minsk. Rules were adopted. The Central Committee was transformed into a Republic Council, which was authorized to manage defense work until the first OSTO Congress.

The Supreme Soviet of the Republic has voted to keep the Defense Society, provided it conducts all its affairs in accordance with the Declaration of Independence and Sovereignty of the Republic.

The Republic of Byelorussia has announced its right to have its own Armed Forces. What sort of army will Byelorussia have? What specialists will be needed? The fate of schools and clubs of the Defense Society depends in large measure on the answers to these questions.

There has been a catastrophic rise in the number of refusals to serve in the military -- from 2 in 1988 and 4 in 1989 to 20 times as many last year. About 150 soldiers drafted from Byelorussia have deserted.

Citing the fact the government could supply neither motor vehicles nor fuel, a Byelorussian government representative advised the new organization to work out an agreement with the center rather than breaking with it.

CC DOSAAF USSR Deputy Chairman A. Shcherbakov, representing the center, lamented the fact that the Rules adopted by the Congress did not address the question of cooperating with the center.

NLD-1513

A leather "LY TROPHY" is issued for working LY stations. Amateurs from Europe must work 25 stations and those from Asia 10. The diploma costs 15 rubles or 10 IRCs. The "BALTIC WAY" diploma is issued for working one station each from ES, LY, and YL within a 24-hour period. It costs 3 rubles or 6 IRCs. Write to Diploma Commission, ORL, P. O. Box 1000, 2001 VILNIUS, Lithuania. SWLs are entitled to receive these diplomas [certificates] under analogous conditions.

The multi-colored pennant "TIFLOS" (named for the Ukrainian club of sightless radio amateurs) is issued for contacts with club members, any mode, beginning 7 October 1989. Apply for pennant to V. Kolomiyets, RB5ZAH, 64 Molokov St., Apt. 16, 329810 PERVOMAYSK (Nikolayevskaya Oblast'), Ukraine.² Club members: UB4YWA, UT5UB, RB5YN (until September 1990), RB5DJ, RB5NFH, RB5ZAH, UB5BCZ, UB5GDD, UB5IHT, UB5IIC, UB5ISN, UB5VCF, UB5YBC, and UB5ZFK.

In connection with Leningrad being renamed St. Petersburg, the "Leningrad" diploma will be issued under new conditions. It is necessary to accumulate 67³ points. Apply to Diploma Commission, Radio Technical School, 37 Shmidt Quay, 199034 ST. PETERSBURG. From U1AM.

²Note the use of "Ukraine" and "Russia" rather than Ukrainian SSR and RSFSR, etc.

³The city was named Leningrad for 67 years, from 1924 to 1991.

SRAM-038 - Continued

SP #45, November 1991, signed to press 5 November 1991:

"FIRST FULL STEP TAKEN"

[Speech by the outgoing DOSAAF Chairman, General Colonel N. N. Kotlovtssev:]

DOSAAF is needed by the country and therefore has a chance of surviving at a time when other state and political structures are being liquidated.

New problems face the Defense Society, including staffing and financial problems. Qualified instructors are leaving for competing organizations.

Technical sport is being attacked at various levels for the purpose of discrediting its management by DOSAAF and tearing it away from the Defense Society. The number of sports competitions and competitors dropped sharply in 1991. Only four republic teams participated in the cross-country motor races [? - motokross] championship of the USSR and no radiosport competitions were held at all. The time has come to accept the fact that DOSAAF is no longer in a position to support over twenty forms of expensive sport.

DOSAAF production enterprises are showing significantly lower profits, raising the question of their continued existence. Attempts are being made by local authorities to take them over. So we need to figure out which enterprises to hand over and which to keep under central control.

The cost of maintaining DOSAAF committees and organizations is rising faster than income from their activities.

The question of social property -- the cornerstone of the foundation of the Defense Society -- deserves special attention. The net worth of the Defense Society is almost two billion rubles. There is an unfortunate tendency to split up common property.

The public needs to be educated about the Defense Society. It is in our mutual interest to keep the newspaper "Sovetskiy Patriot" and magazines that spread military knowledge and attract youth to technical sports.

NLD-1514

The first competitions for sightless radio amateurs will take place from 0400 to 1400 MSK 23 November 1991 on 'phone on all shortwave bands. All shortwavers of the country are invited to take part. The control number consists of oblast' number and serial number. Repeat contacts on different bands count. Band changes must not exceed 40. Maximum operating time is 8 hours, with one break permitted. Winners among sightless radio amateurs will be determined in three categories: Individual stations, individual stations (4th category), and collective stations. Send reports to Judges' Collegium, Radio Technical School, 37 Lieutenant Shmidt Quai, 199034 ST. PETERSBURG.

R6E will be operated in November 1991 from the Western Caucasus by the High Mountain DX Club ["Vysokogornyy klub"]. A pennant for working this station costs 5 rubles. Send QSLs and reports to P. O. Box 410, 141070 KALININGRAD-10, Moskovskaya Oblast'. From UA3-142-902.

This year UB4MZL is using UR5M in several competitions. A pennant for working or monitoring this station once costs R 5.30 and 30 kopecks in stamps. Write P. O. Box 59, 349900 LISICHANSK, Luganskaya Oblast', Ukraine². From RB4MF.

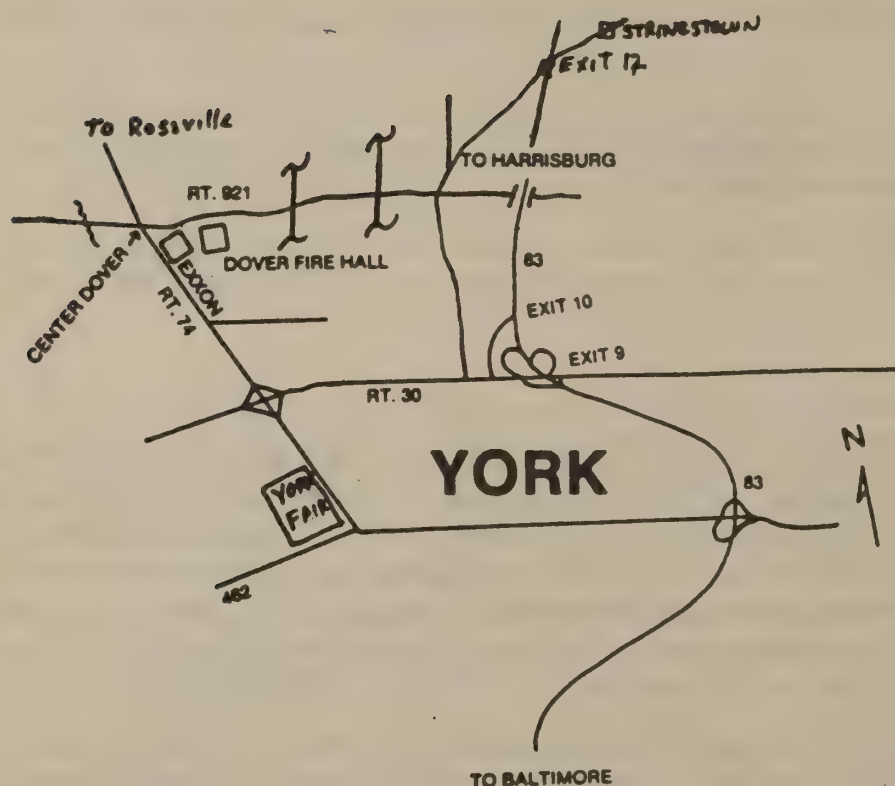
Activity days for doctors who are radio amateurs will be held 18 - 25 November 1991 by the Federation of Radio Sport of Vinnitskaya Oblast'. RYØN will operate. QSL to P. O. Box 6280, 286012 VINNITSA, Ukraine. From RB5NS.

EK25ØRA/UAØZ will operate from the uninhabited island of Krashennikov in the Bering Sea from 5 through 12 November 1991. QSL to UA9OBA, P. O. Box 1, 630092 NOVOSIBIRSK-92. Those wishing a memorial pin may send 2 rubles in stamps along with their QSL card.



5th Annual YORK SPRINGFEST AMATEUR RADIO and COMPUTER SHOW

March 1, 1992
DOVER FIREHALL, DOVER, PA



Rain or Shine
Tailgating \$2.00 Per Space
Two Floors Indoors
Kitchen Operated by:
DOVER FIRE COMPANY
Breakfast Available
No Smoking in Building
8:00 a.m. General Admissions
VE Exams
Local Repeater 146.37/.97
Donation \$4.00
Unlicensed Spouse FREE
Children Under 12 FREE

For Advance Table Registration

* VE EXAMS contact *
PAGE EVANS NE3P
717 - 359-7610
PRE-REGISTRATION has priority
2 forms ID one with PHOTO
Copy & original current license or
original certificate of completion.
FEE CHARGED (cash Preferred)

Mail to:
YORK SPRINGFEST
P.O. BOX 316
NEW FREEDOM, PA 17349-0316
For Info Call (301) 239-3878

Atlantic Division Award Nominations

Nominations are now being sought for the 1992 awards to be presented at the ARRL Atlantic Division Convention.

"Amateur of the Year" nominees should be outstanding all-around Amateurs from the Atlantic Division with a strong record of service to the Amateur community.

The **"Grand Ole Ham"** award recognizes a lifetime of service to Amateur Radio, and is open to Atlantic Division Hams who have been licensed at least 30 years or are at least 50 years of age.

A **"Technical Achievement"** award may be presented to an individual or to a group from the Atlantic Division.

The Atlantic Division Convention will be held in association with the Rochester, NY Hamfest May 15-17. Handsome plaques will be presented to the award winners at the hamfest banquet on May 16. Complete information on the awards and nomination procedure is available from Richard Goslee - K2VCZ, 24 Elaine Drive, Rochester, NY 14623. The deadline for nominations is April 1.

Take a few minutes of your time to make a nomination recognizing some of the many people in the Atlantic Division who have contributed so much to the Division and the Amateur Service.

Automatic Unattended Operation Survey

The ARRL is looking for help in planning automated message systems below 50 MHz. The January issue of QST (page 41) contains a survey form for your comments or suggestions. They would like to get your views. Replies must be returned by March 6.

The issue is more complex than it appears from a casual look. In the context of digital communications, "automatic operation" means using a computer to send and receive commands and messages over the air without direct control operator intervention. "Unattended automatic operation" means doing so without an operator being present to observe or intervene in the operation of the station.

It is possible for an unattended automatic digital station to work another station that is being controlled by an operator who is present and can listen to the frequency that is to be used to ensure that it is free before initiating a contact. In this style of operation, the frequency can be shared by more than one digital mode. For the purpose of this survey, this is called *semi-automatic* operation. RTTY and AMTOR MBOs typically operate in this mode.

It is also possible for an unattended automatic digital station to work another unattended automatic station. In this type of operation, the frequency used must be set aside for the specific digital mode the stations are using at the time such communications are to take place. Sharing the frequency with another mode is not possible. This is referred to as *fully automatic* operation. Packet BBSs typically operate this mode.

All digital modes are capable of either *semi-* or *fully automatic* operation.

(Paul Rinaldo - W4RI in January QST)

Recognitions

Paul Rinaldo - W4RI our "home town boy" from McLean, VA, and now ARRL manager of technical development, has been named as a member of the U.S. Delegation to the 1992 World Administrative Conference. ARRL Executive Vice President **David Sumner - K1ZZ** will also attend the WARC as part of the International Amateur Radio Union observer team.

Thanks to all the people who sent cards and notes to the Auto-Call staff over the holidays. It was a very pleasant surprise. Your kind words were very much appreciated.

Congratulations to Barry Goldwater - K7UGA on his recent marriage.

Silent Keys

Phil Wicker - W4ACY is now a Silent Key. Phil was Roanoke Division Director from 1974 to 1980 and served as an Honorary Vice President of the ARRL Foundation. He was very active in the ARRL Scholarship program. We hope to have more details in the March issue.

Royal Mumford - W3CU became a Silent Key on January 4 at the age of 93. His family traveled the old Oregon Trail by covered wagon and settled in the Oregon Territory. Royal and his two brothers, Harold - W6CU and Bill - W?CU became true radio pioneers. They became in the new-fangled "wireless" about 1912 and by 1916 Royal had built a 500 watt spark rig. Royal served with the Navy in WW-I and again in WW-II - this time as a Radio and Radar instructor at the Naval Academy. He continued to be active on the air and frequently attended SOWP and QCWA meeting in the area up until a short time ago. Royal will be sorely missed.

Wayne Novack - K3GBV of District Heights, Md. died 18 December at Walter Reed Hospital. He was a retired USAF Senior Master Sergeant, a communications specialist. He was very active for many years in Air Force MARS and was MD MARS Director for several years. He will be missed by his many friends.

(Submitted by Keith Wiese - WA3UQR)

The Passing of an Era

Lester Cushman - W1BX founder of the famous Cushcraft Corporation died November 12. He was 86.

Walt Henry - W6ZN died December 1. He was 80 years old. Walt and his brother Bob were co-founders of Henry Radio Stores where many early Amateurs got their first equipment.

Admiral Grace Hopper, legendary computer pioneer died at her home in Arlington, Virginia on January 1 following a heart attack. She was a co-inventor of COBALT business language and pioneer on the Mark II and Mark III Navy computers. She was the Navy's oldest-serving officer when she was forced to retired in 1986 at the age of 79. She then continued to work as a full-time senior consultant to Digital Equipment Corp. in Washington, D.C. She was truly a remarkable lady!

Bill Carter - KM5R (formerly N5BET) well known contest operator died on November 10 after he fell from his tower. Bill was just finishing his operation in the CQ Worldwide DX Phone contest and found some problem with one of his antennas. He climbed the 60' tower without a climbing belt. He never regained consciousness and died two weeks after the fall.



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FOR TABLES CALL . . . HARRY KAKLIKIAN W4ACN (703) 978-4402

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QCWA/SOWP JOINT Meeting

A joint meeting of the QCWA and SOWP was held at the Ramada Inn, Falls Church, VA on December 14. It was a gala affair attended by representatives of 6 local area chapters of QCWA and a good showing of members of SOWP Chapter X. Several National QCWA officers were present; namely, Harry Dannals - W2HD, President; John Swafford - W4HU, Secretary; Walt Brink - W3WPY and Jack Kelleher - W4ZC, Directors. SOWP officers included Director Ralph Albers - W4ER, Sec/Treas Emerson Mehrling - W4NH, and Vice Presidents Jack Kelleher - W4ZC, EM Mehrling, and John Swafford. A special SOWP Honar Award was presented to Swafford.

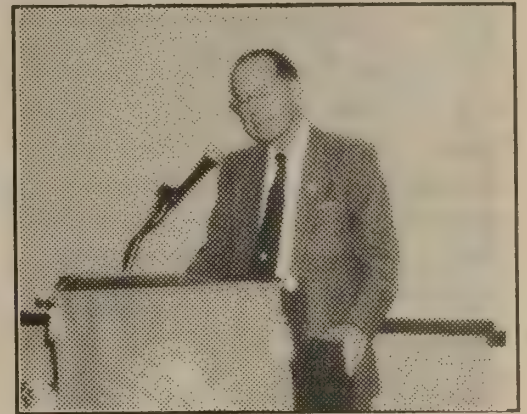
The following photos were snapped by Jack Kelleher, W4ZC.



*QCWA President - W2HD
With a hug for K4LMB*



*Chapter 91 Pres. W4HU Gets
SOWP Award from W4NH*



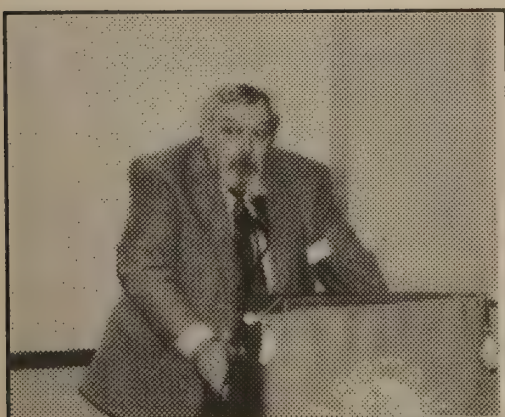
*Chapter 23 Sec. W3TFA
Rekindling Chapter*



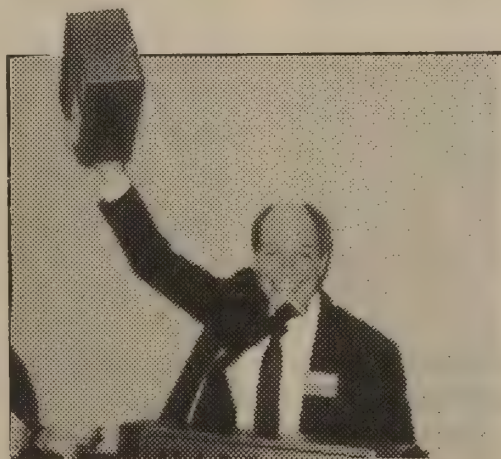
*Atlantic Division Director
Hugh Turnbull - W3ABC*



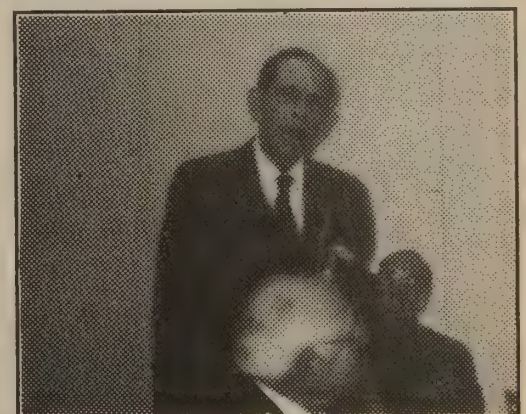
*Roanoke Division Director
John Kanode - N4MM*



QCWA Director W3WPY



*Net Control K4JAP
Awards Prizes*



65 - Year Amateur K4RE

Goddard Radio Club

WA3NAN

- Meetings:** Third Wednesday of the month at 5:00 p.m. Goddard Radio Club Station, Soil Conservation Road, Greenbelt Maryland, across from the Soil Conservation Road gate of the Goddard Space Flight Center. This road may be accessed from either Route 193, Greenbelt Road, or Powder Mill Road.
- Repeater:** 146.835 MHz
- Net:** Information net every Thursday evening at 9:00 p.m. local time. All Amateur Radio operators are welcomed.
- Information:** Chuck Sommer, N4OSD (301) 794-3280 or Vikki Gigante, KA3PVS (301) 249-2609

Happy Valentine's Day to all! Please note the change in our information net day and time. It is now Thursday at 9:00 p.m. This change was decided upon after polling club members and determining that many of them were unavailable for the Wednesday time slot and this one was better suited. Looking forward to seeing you on the net!

Our Holiday Party '92 was a big success. Thanks to all who attended to make the party a good time. During the party, Hugh Turnbull - W3ABC, was honored with a presentation commemorating his sixtieth anniversary year of being an Amateur Radio operator. Congrats, Hugh, and thanks for all of your contributions to GARC over the years. Also, Chuck Sommer - N4OSD was finally presented with a commemorative gavel, in order to keep the club in order, in recognition of his superb leadership of the club in the last three years. Thanks, Chuck, for all you do! A parody on the Twelve Days of Christmas was sung by a select choir of club members and our own net control, Pat Gossard - N3KGY, read a revised version of the Night Before Christmas, and guess who became the jolly old elf? Chuck, somehow, you as Saint Nicholas?! It boggles the imagination! Anyhow, a good time was had by all. Even the junk box gifts were not too outlandish this year!

There will be a shuttle retransmission training workshop on Saturday, February 15, from 10:00 - 1:00. Topics to be covered include security procedures, equipment tune up and maintenance, how to be a shuttle retransmission operator and scheduling. If you

would like to volunteer for shuttle retransmission and have not been trained or if you have been trained, but it has not been within the last two years, please contact Vikki at 249-2609 to reserve your place. There is no charge for this workshop. However, in order to become a shuttle retransmission operator, there is a requirement to join the Goddard Amateur Radio Club. This is a requirement passed on to us by Goddard Security. Dues are \$12.00 per year. Please bring a copy of your FCC license as well. There will be a tour of the WA3NAN facilities after the workshop.



STS-42 Crew Patch

Hopefully, by the time you read this, the next launch will be history. It is currently scheduled for January 22 as STS-42, a spacelab mission. The launch after this one, scheduled for mid-March, will be the next SAREX launch and will have two Amateurs on board with voice-only capability. In other words, they will have their HT's on board. This will be a high inclination orbit mission, about 54 degrees, so opportunities for contacts should be good.

Just for your information, members of our club are available to speak to other clubs and school groups, boy and girl scouts and the like, on SAREX and shuttle retransmission. If you would like someone from the club to come and speak to your group, just contact Vikki Gigante at (301) 249-2609 or Chuck Sommer at (301) 794-3280 and we'll be glad to spread the word about Amateur Radio and its application in the shuttle amateur radio experiment and shuttle retransmission. Thanks!

Vikki - KA3PVS

Herndon Repeater Group

Meetings: On-the-air meetings on alternate Mondays at 9:00 p.m.
Repeater: N4FXP/R 144.71/145.31 MHz
Packet BBS: 145.09 MHz
Mailing: Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070
Training: Michael Weber - WB8RDN (703) 450-2304
Information: Michael Rosati - N4FXP (703) 481-8380

Next General Class Training Course.

The Herndon Repeater Group (HRG) is sponsoring a free 6-week General Class upgrade course (code and theory) in Herndon on Saturday mornings from 900 a.m. until 12:30 p.m. from March 28 until May 2. Students would then take the General code and theory exams at the HRG sponsored ARRL/VEC examination session on May 9.

To enroll in this course, applicants must have a Technician Plus license and copy of the newly updated ARRL General Class License Manual. The course will be limited to 35 students and will be taught by Terry Merman - AB4UM (code) and Jerry Moore - AC4JV (theory). Contact Mike - WB8RDN to register.

Seminar: In addition, HRG will sponsor two one-day math seminars to review mathematics skills needed for the Advanced and Extra class exams. The Advanced seminar will be held on Saturday April 11 from 12:30 p.m. until 2:30 p.m. The Extra seminar is on Saturday April 18 from 12:30 p.m. to 2:30 p.m. Both seminars will be held in Herndon, are free and will be taught by Jerry Moore AC4JV. This is timed with the May 9 HRG ARRL/VEC exam opportunity in mind. Contact Mike - WB8RDN to register.

HRG Party. The HRG Holiday Pot Luck Party was hosted this year by new Ham and HRG member Kay Colton - KD4GSZ at her home in Centreville. All those attending had a great time. Thanks to Kay and her husband for the hospitality.



KD4GSP & KD4GSV
Time Out Between 2-meter QSOs

Photo: The photograph at left demonstrates what can happen if two HRG members get married. On November 30, Jody Yost - KD4GSP and Chris Crabtree - KD4GSV found a few minutes between 2-meter contacts to get married. It's nice to see people still have their priorities in order!

Club Net. Please join HRG in our Club net held on alternate Monday evenings at 9:00 p.m. on the 145.31 MHz N4FXP/R machine in Herndon. A

voice message can be heard several days prior to "Net Night," indicating an upcoming net.

New Members: The Herndon Repeater Group has received many new membership applications, including some newly licensed family members and graduates of the recent Code and Theory Course. Some are still waiting for their callsigns to arrive. Membership now stands at 76 members.

Repeater Activity. The activity on the HRG 145.31 MHz N4FXP/R repeater has certainly increased with all the new members. If you hear a new call sign on the repeater, please take time and welcome them to the club.

Girl Scout Demonstration. Planning continues for the Amateur Radio demonstration for 600 Girl Scouts during an open house on February 1. Other upcoming club events include Field Day and a journey to the Dayton Hamvention by some club members. Details will be listed in future *Auto-Call* columns.

Packet: Information on the HRG packet system (145.09 MHz) can be obtained from Bill - W4WJN on the HRG Repeater. (Continued)

Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings: Quarterly, on the second Sunday of the month.
Time and place to be announced.
Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out. Accessible on 147.36 MHz
On-the-air: Saturdays at 1900 hours
Mailing: Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903
Information: Bob Sporn - WA3GGO (301) 434-1719

Congratulations are in order to our new treasurer, David G. Bennett - formerly KA3TQA, who upgraded from Technician to Advanced. David's present call is KE3AB.

At our December meeting, the following officers were elected for 1992:

President: Robert D. Milligan - KI4MB
Vice Pres: Chris Kushay - KA3LJR
Secretary: Robert Sporn - WA3GGO and
W.J. Saunders - K3UAL
Treasurer: David G. Bennett - KE3AB
Trustees at Large: Lukas E. Hoska - WA3UEA
Bron R. Kidwell - N3AGB
Marvin T. Storey - N3FBO

THE SUNDAY MORNING COFFEE NET (50.4 MHz at 0900 Hours)

At 2000 hours on Christmas Day we had our traditional Christmas Net. Stanley Brigham - W3TFA worked his twentieth country on 6-meters when he had a QSO with Edgar of Caracas, Venezuela. Joe Saunders - K3UAL worked Costa Rica on six, and Korea on 10-meters

MARYLAND FREE STATE SIX METER SIDEBAND NET (50.125 MHz) SUNDAYS AT 1900

This net meets regularly, with alternating net controls. Join us.

.....

Herndon Repeater Group - Continued

FAR: On December 11, HRG FAR trustees Mike Rosati - N4FXP and Mike Weber - WB8RDN journeyed to far away Takoma Park to attend a FAR meeting. The flow of the meeting was fascinating to those of us who had not been there before. HRG encourages the trustees of the other FAR affiliated clubs to attend FAR meetings and help guide FAR.

Exams: The next HRG ARRL/VEC Novice - Extra exam testing session will be held on Saturday 9 May, beginning at 8:45 a.m. in the cafeteria of the Herndon High School. Pre-registration is requested. Call Mike - WB8RDN after April 19 at (703) 450-2304. HRG intends to offer VE Exams twice a year in Herndon.

Novice/Technician Course September 12. As reported last month, the dates have been finalized for the 1992 HRG Novice and Tech code and theory course. The course is free but will be limited to 35 people. The text for the course is the "Now You're Talking" ARRL manual.

Bob - WA3GGO

Metrovision Amateur TV Club

FAST SCAN - COLOR - ATV

Meetings: Quarterly: Call for next meeting time and place.
Repeater: WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out
Also accessible on 144.970, simplex, audio.
On-the-air: Sundays at 8:00 p.m.
Mailing: Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041
Information: Dick - WB3EPX (301) 439-8135
Gene - AD3F (301) 774-5307

I apologize for the delay, but the new slate of Metrovision officers will not be ready in time for this issue of Auto-Call. The results will appear in the March issue. We thank you for your patience.

The first Metrovision meeting for 1992 will be held at the QTH of Dick - WB3EPX p.m. As this is the most important business meeting for the year, we encourage all of our members to attend. Instructions on getting to the meeting will appear in the March Auto-Call.

We congratulate the proud parents, Helen and David Phillips, on the birth of their third child, Michael Sullivan Phillips, who came into this world on November 14. We also congratulate the proud grandparents, Ruth and Dave Phillips.

The photos below show some more members who attended the Metrovision Dinner held back in November. (Individuals were not identified). Other pictures appeared in the January column.

Dick - WB3EPX



M A D R A S

The Maryland Apple Dumpling Radio Amateur Society Inc.

Meetings: 2nd and 4th Thursdays of the Month - 7:00 p.m.
At the NBC Building, 4001 Nebraska Avenue, N.W.
Repeater: 444.100/449.100 MHz 145.45/144.85 MHz
Packet: 145.55 MHz Node 44.96.0.85
BBS: (301) 258-1954
Mailing: P.O. Box 2468, Wheaton, MD 20902
Information: Scott Standiford, W3YTW (301) 589-9321 or BBS
Larry Zeicheck, N3GKZ (301) 984-6112

Schedule of Events

February 13 - Regular meeting - 7:00 p.m.
The program will be given by Scott Standiford - W3YTW and it will be an easy to understand discussion of vacuum tubes and how they work.

February 26 - Regular meeting - 7:00 p.m.
Jerry Simon - N3HVC, from Hewlett Packard, will talk on and demonstrate the HP-8920 transceiver test set. Bring your HT as Jerry will be making measurements on the radios of those present. Measurements include power out, transmit and receive frequency, spectral purity, sensitivity, 12 db. SINAD. (Bring audio in/out cables for your radio that connect to BNC).

Both meetings will be in the WKYS-FM conference room in the NBC/WRC-TV building at 4001 Nebraska Avenue, N.W.

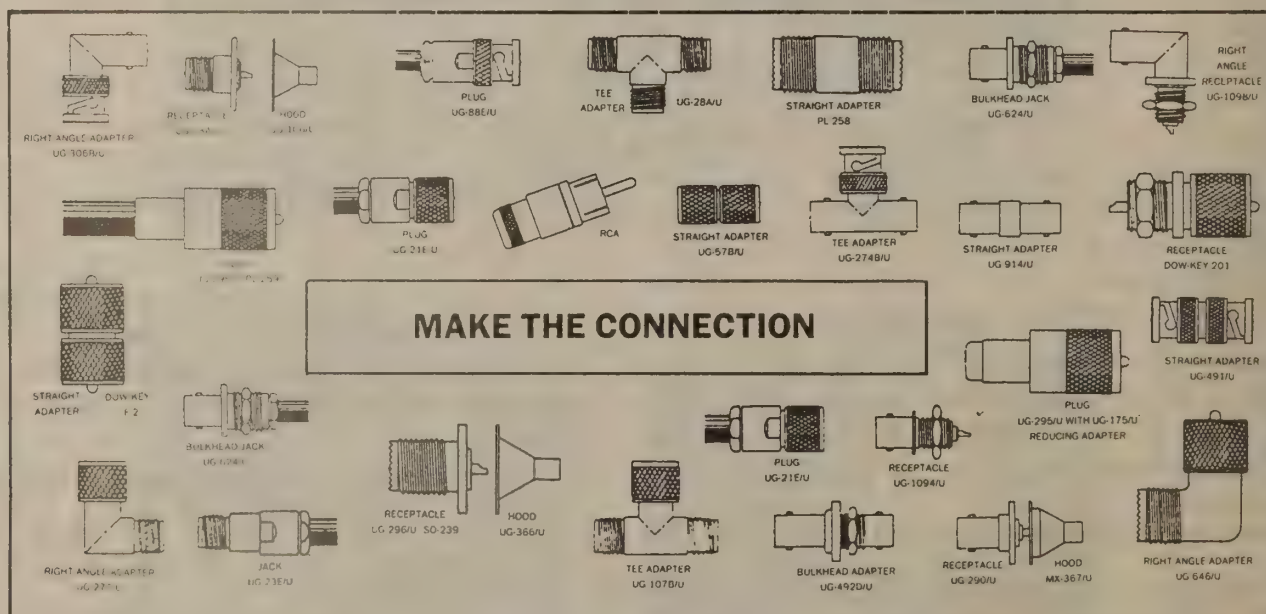
There is interest within the club to hold the second meeting of each month at the clubhouse in Rockville and on a Saturday instead of Thursday. Under the proposal, the first meeting of the month would continue to be held at NBC Washington. If you have feelings one way or the other, attend one of our meetings and make your wishes known.

The December dinner meeting had a record attendance and a good time was had by all.

Scott - W3YTW

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Montgomery Amateur Radio Club

Meetings:	1st and 3rd Wednesdays of each month at 7:30 p.m. Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2.
Repeater:	146.355 in (Rockville & Germantown)/146.955 out (Rockville)
Mailing:	M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20877-0611
Information:	Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172
Training:	Ken Nichols - KD3VK (301)977-5405; Dick Hayman - K3DML (301)251-8721

By the time this issue is published, the Montgomery County Amateur Radio Club will already be well into the middle of First Quarter '92! However, at copy deadline time, the New Year, though fast approaching, was not yet a reality. In other words, it was a time for thoughtful retrospective of the M.A.R.C. year about to pass into history--in preparation for moving forward with hope...thus, in a reflective spirit, this issue is dedicated to the memory of one of M.A.R.C.'s most memorable Silent Keys: John - KV3B....

First, the "Appreciation" Honor Roll: within this classification, there are many subcategories, to wit:

- REPEATER COMMITTEE chaired by Stan - W3INK and his tireless band of supporters, including all M.A.R.C.onians who completed the Repeater survey & expressed their views....Special gratitude goes to Steve - K2IYQ, Mark - N4EOC, & John - KD4CGV for antenna rotation & hardware diagnostics. Also to Bill - W3WON for preserving memories on video tape. (Not to omit Ross - WA2WDT who operated a 146.64 beacon built by WA3LTJ).

NOTE: For anyone who may have missed the *BIG ANNOUNCEMENT*, T-MARC (thank you, Gary) formally re-coordinated the M.A.R.C. frequency to 146.955 MHz (-600 offset) on 12/15/91 to minimize co-channel interference. The "net net" of this "win-win" situation is that there currently exists -3dB antenna gain to the North; +6dB gain to the South; and approximately twice the former output power....

- EDUCATION COMMITTEE chaired by Ken - KD3VK & virtually co-chaired by Dick - K3DML, who, along with each and every volunteer instructor, are responsible for bringing 15 new licensed Amateur Radio Operators into being just last fall.

- VE COMMITTEE co-chaired by Pierre - KB3ZM & Walt - KX3U, without whom, none of us could call ourselves "hams." FYI, of 20 candidates taking exams on 12/7/91, results were: 1 Novice, 5 Technician, 4 General, 2 Advanced, and 1 Extra Class exams successfully completed! The VEs who made this possible were John - W3QF, Boyd - KZ3Z, Ari - KW3R, Bob - WK3C, Tom - KK3A, Jeff - KZ3F, Stu - KC3K, Steve - K2IYQ, and Michelle - WK3X.

- MEMBERSHIP COMMITTEE chaired by Jeff - KZ3F, chief "head hunter," "nose counter," and Data Base Administrator (DBA). Jeff reported that by year-end '91, M.A.R.C. stood at 275 strong and "still growing."

- SOFTWARE COMMITTEE, a "One-Man Band" composed of Bob - WK3C. His "behind-the-scenes" efforts have resulted in a spanking new 5-page catalog of M.A.R.C.'s current software inventory. For this effort, Bob is dubbed "Librarian Extraordinaire."

- PUBLIC SERVICE "COMMITTEE," a Multiple Choice Feast pulled off by Individual Event Chairmen, e.g., Ron - W3GIS, Hank - N3ESR (twice), Jim - WA2GIN, Cary - NI2Q, Steve - K2IYQ and Bob - NK3I.

We would like to pass kudos to all of the informal "committee chairman." See the next page for that listing. I especially want to mention two of the committees who have been particularly helpful to your Traveling Amateur Reporter:

- The NEWSLETTER COMMITTEE, headed up by David - N3GWL. Wielding only a "Mac" and a modem, David has slain the Desk-Top Publishing Dragon.

- The "SCRIBE COMMITTEE," headed by incumbent Technical Secretary, Dick - WB3AAO - a monument to Data Integrity!

(Continued)

Shenandoah Valley Amateur Radio Club

Meetings: First and third Fridays of each month at 7:30 p.m. The SVARC clubhouse on Grace Street in Winchester, VA.
Repeater: 146.22 in 146.82 out
Net: Shenandoah Valley Emergency Net, 7:15 p.m. daily
Mailing Address: P.O. Box 139, Winchester, VA 22601
Information: Sean McClanahan - WD4RPV (703) 869-4374

1991 has been a good year at SVARC. We have a completely refurbished clubhouse, including a new roof, new furniture, and the radio room has been upgraded. The repeater has a new tower. Thanks go out to those who worked on these projects.

The officers elected for 1992 took office January 1. They are:

President: Guy Black - W4PSJ
Vice Pres: Walt Johnson - WA4HVV
Secretary: Sean McClanahan - WD4RPV
Treasurer: Mike Collins - W4ACC
Trustee: Olin Stultz - WA4OYD
Trustee: Jack Weaver - WB4SXJ
Trustee: JoAnn Blaker - WB2CMV

The Christmas Party was well attended and I for one enjoyed the affair. There was a lot of good food and good fellowship.

Our new president called a Board meeting January 1. We can expect some exciting things at SVARC in 1992.

As retiring president of SVARC, I want to thank the membership for the opportunity to serve. I am proud to have my name added to the list of Past Presidents.

Walt - WA4HVV

Montgomery Amateur Radio Club - Continued

Kudos go to some of the informal "committee chairmen" :

- "President-for-Life Committee" : Steve - K2IYQ (just kidding!)
- "Treasury Committee" John - KA3QFL who keeps us "out of the red" but "in the know" about M.A.R.C's financial health.
- "Program Committee" : Al - NW2M; John - N3HBX; I.J. - K9ICF.
- "Hardware Clinics" : Jerry - N3HVC & his HP Test Set - Always a crowd pleaser.
- "Auction Committee" : Tom - WD3DIO, Al - KN3U, Jon - KD4CGV & Ross - WA2WDT (Encore Command Performance requested...)
- "Field-Day Committee" : Rick - K3YNY, the Last Boy Scout.
- "Old-Town Day Committee" : Jeff - KZ3F & Alan - N3EHD.
- "Trustee Committee" : Stu - KC3K (- - - - -)
- "Publicity Committee" : Errin - N3HSA (Steady Drumbeat)

Errin - N3HSA

AMRAD

Amateur Radio Research and Development Corp

Meetings: Second Thursday of each month, Fairfax County Library, McLean, Virginia
Repeater: WD4IWG 147.81 MHz in, 147.21 MHz out. Director, Jeff Brennan, WB4WLW
WD4IWG is an open repeater for FM voice and digital communications, especially for experimental modes. Autopatch available to members.
Data Address: CompuServe/Micronet number [72345,1050]
AMRAD CBBS: (703) 734-1387 Operated by Lawrence Kesteloot, N4NTL
E-Mail address is Ikestel@muvox2.gmu.edu
Information: Andre Kesteloot, N4ICK (703) 356-5519 or Terry Fox (703) 698-7612

AMRAD is a worldwide club of several hundred Amateur Radio and computer experimenters. Its purpose is to develop skills and knowledge in radio and electronic technology; advocate design of experimental equipment and techniques; promote basic and applied research; organize technical forums and symposiums, collect and disseminate technical information; and provide experimental repeaters. We are looking for people interested in any of the technical aspects of Amateur Radio.

Programs:

Over the past several months, the monthly AMRAD meetings have presented the following speakers:

September: Goddard Amateur Radio Club
Chuck Sommers - N4OSD and Vikki Gigante - KA3PVS gave us a talk on Shuttle Retransmissions and SAREX.

October: Paul Wilkins - AB4CY of Vienna Wireless Society gave a talk on Nicolas Tesla.

November: Glenn - KA0ESA and Skip - N2FOE gave a demonstration of 10GHz equipment.

December: Systar Telecommunications Corp program on Cellular Radio History & Basics.

A synopsis of talks/programs presented at AMRAD meetings is published in the AMRAD newsletter, and is available on the HEX BBS.

AMRAD Bulletin Boards:

AMRAD operates two BBSs:

- The AMRAD Computer BBS on (703) 734-1387 accepts calls at 300, 1200, and 2400 baud. Data path settings are 8 data bits, 1 stop bit, no parity.
- HEX BBS: The Handicapped Educational Exchange BBS is operated by Dick Barth - W3HWN. HEX accepts TDD/300 baud at (301) 593-7033, and 300/1200 baud at (301) 593-7357. ASCII is 8N1.

New Board of Directors:

At the December AMRAD annual business meeting, new members for the Board of Directors were elected.

The new Board consists of:

Andre Kesteloot - N4ICK
Glenn Baumgartner - KA0ESA
Jeff Brennan - WB4WLW
Dave Borden - K8MMO
Dave Rogers - N4JGQ.

The two alternate members are:

Terry Fox - WB4JFI and
Sandy Sanders - WB5MMB.

Looking for new Newsletter Editor.

AMRAD is looking for a new Editor of the AMRAD Newsletter. The newsletter is published six times yearly. Anyone interested, please call Andre Kesteloot - N4ICK @ (703) 356-5519.

Current Activities:

For the past 2 or 3 months, local AMRAD interests have centered around 10-GHz activities. Ten-GHz sources have been procured and the peripheral equipment is being built. We are looking to try a 100-mile path in late February/early March. We are also building a 10-GHz beacon and repeater to be placed at a Tyson's Corner location. More about our 10-GHz activities next month.

Anyone with an interest in 10-GHz, or any other technical topic, drop by one of the meetings (see masthead above) or join us for lunch. We meet every Saturday @ 12:30 p.m. at Taco Rio Grande on Rte 123 in Vienna. AMRAD repeater for talk-in.

Dave - N4JGQ

Prince George's Wireless Assn.

Meetings: First Working Tuesday of each month, 7:30 p.m., American
Red Cross Service Building, 6206 Belcrest Road, Hyattsville, MD 20782
Club Station: K3CEZ
Mailing: 4109 Kennedy Street, Hyattsville, MD 20781
Information: Frank Holton, WA3ZMW (301) 927-1245

Here we are with the beginning of 1992 and many of us making resolutions trying to make this year an improvement over our endeavors of 1991. Prince George's Wireless Association is no exception along those lines.

PGWA is an Amateur Radio Group working in liaison with the Hyattsville Chapter of the American Red Cross. Our position with the Red Cross is to offer communications on the Amateur frequencies in the event of an emergency or disaster type situation.

Each year, a priority call-up list is outlined by Hersh (Dan) Miller - W3SWD and Frank Holton - WA3ZMW. This list includes those members who can be available within minutes, and alternates to follow up. Yours Truly lives two blocks from the Club station and I would probably be the first to report. The list is

complete with names, call signs, addresses, and phone numbers and availability.

PGWA resolves to make this year a learning experience for the members, by hands-on use of the club's communication equipment, including some of the newer and more sophisticated programmable system.

As part of the meeting, we will have question and answer participation and possibly blackboard illustrations of circuitry and block diagrams. Most radio clubs can boast that there is much time honored talent among its members, and we plan to put that talent to use.

Good luck to everyone making resolutions and we wish you the best of success in carrying them out.

Ken Easton - N3HLY

HELP WANTED: With Shuttle Experiment.

A U.S. space shuttle launch is planned for March 1992 as the first mission in a series of 10 flights called ATmospheric Laboratory for Applications and Science (ATLAS-1). One of the payloads, Space Experiments with Particle ACcelerators (SEPAC), will investigate the ionosphere and magnetosphere, transmitting an 8-kW electron beam modulated as a VLF transmitter by audio tones between 50 Hz and 7 kHz. Scientists will attempt to record the signals at various locations on earth, and examine them via spectrum analysis and other means.

Because there are a limited number of ground stations, Amateur Radio operators and high schools are invited to participate in listening and recording activities. A low-cost (\$35-40) receiver kit has been designed and tested by hams, and will be made available this fall.

The project, dubbed Interactive Space Physics Ionosphere Radio Experiments (INSPIRE), will be the first time in history that such an extensive data monitoring network has been set up to cover the U.S., as 10,000 high schools are being asked to participate.

Hams will also help with daily pre-mission communications regarding high school involvement, and Amateur Radio will play a vital role during the mission by relaying schedule changes for SEPAC transmissions. Radio clubs can help their members and local high schools with kit building and setting up listening stations.

For details about INSPIRE, Amateurs should send an SASE with two first-class stamps to Jim Ericson, KG6EK, 226 Charles Street, Sunnyvale, CA 94086-6063. For information on school participation, send an SASE (two stamps) to Bill Pine, Science Department, Chaffey High School, 1245 N Euclid Avenue, Ontario, CA 91762.

Tri-County Amateur Radio Club

Meetings:	Semi-annual business meetings, time and date announced on the air and in the club newsletter.
Repeater:	KA3LAO/R, 147.780 MHz in; 147.180 MHz out.
On-the-air:	Tuesdays at 1930 hours (Local time). Amateur Radio Newsline Tuesdays at 1915 hours (Local time).
Mailing:	P.O. Box 10592, Silver Spring, MD 20914

Now that we are a month into the new year it is time to look back at our new year's resolutions. How many remain unbroken? We should all resolve that this year we will improve our operating techniques and make sure we are prepared for emergencies. Everyone should take a moment to review their emergency preparedness: food, water, generator and/or battery power, antennas, portables, etc. You can never tell when these items would be required. Now is the time to check your plans before the need arises. Your local ARES/RACES members can help if desired. The Prince Georges' County ARES/RACES organization meets on the 18 machine on Wednesday nights at 9:00 p.m. if you need additional assistance.

Since the question still is being raised frequently on the repeater we need to again explain that a new feature has been added to the White Oak repeater to reduce undesirable keyups resulting from the sensitivity of the multiple receiver sites. There is approximately an one second keying delay when first bringing up the machine. What this means is that you should delay your first voice transmission for at least one second to give the repeater time to "recognize" that you are transmitting, and not just QRM! Once the machine has been activated, the keying delay will not be active again until 30 seconds of repeater inactivity have passed.

Heard On The Repeater: This feature of our report attempts to provide suggestions for efficient and effective use of the repeater:

- o Over the past month we have heard a number of stations who still do not let the repeater completely drop before they begin their conversation. On the 18 machine (as well as many others) it is good practice to let the repeater completely drop and pause a moment before beginning your next transmission. This technique not only allows for the two minute timeout timer (the "alligator") to reset, but permits anyone with an emergency to make a call.

- o When using the autopatch it is important to identify yourself before transmitting the access codes. Remember that there is the initial transmission delay of one second which could suppress the required ID. After the dial tone is brought up, briefly pause your transmission of the telephone number to allow time for the autopatch link to transfer. It is good practice to pause briefly on each transmission to ensure the links are properly in place.

- o A number of times over the past month Tri-County members have come to the aid of folks in need. Recently a call came out over the 18 machine very late at night (or was it early morning?), where a person had run out of gas. A call was made to proper authorities to get assistance to the party in short order. The coverage of this machine makes it a good candidate for those who may need assistance to get it. Even if you do not have autopatch access rights, a control operator will be happy to extend assistance that may be needed, just ask.

NOTE for autopatch users: when the control units were redesigned the auto dial number code sequence was changed. Now to use the auto dial numbers you should enter "*nn" after you get the dial tone, where "nn" is the desired auto dial number (they did not change).

Tri-County ARC invites all Amateur operators to join our weekly net on Tuesdays at 1930 hrs, local. Be sure to be listening at approximately 1915 hrs, local, for the Amateur Radio Newsline, an Amateur Radio news service from California. Newsline always has information of interest to the Amateur community.

New members are always welcome to join Tri-County ARC. For membership information contact us at the post office box shown above.

Greg - WA3FSC

National Capital DX Association

Meetings: Irregular.
Contact the Secretary for information.
On-the-Air: Every Sunday at 8:30 p.m. on 147.420. All are welcome.
Information: Craig Stevens - KZ3H (301) 774-3410

The February meeting of the National Capitol DX Association will be held on Saturday, 22 February at the Anchor Inn Seafood Restaurant at 2509 University Blvd. West, Wheaton, Maryland. The meeting will start with an attitude adjustment hour at 4:00 p.m. (cash bar) followed by the business meeting at 5:00. Dinner will be served at 6:00.

Dinner price is \$16.95 which includes an appetizer, salad, choice of flounder stuffed with crabmeat, combination seafood platter, top sirloin steak, or baked imperial crab; a beverage, and a chocolate sundae for dessert. We need an accurate head count for the meal, so R.S.V.P. to Craig Stevens - KZ3H on the cluster or at 301-774-3410 by Monday, 17 February.

On October 10 and 11, NCDXA will be sponsoring DXPO '92, a convention with DX oriented programming. Location and program speakers have not been finalized yet, but we expect to have a day and a half of technical and travel presentations covering equipment, antennas and towers, propagation, ARRL forum, DXCC & DXAC forum and DXpeditions. Stay tuned to Auto-Call for further details.

Visitors are welcome at all NCDXA meetings. Please RSVP if you plan to stay for dinner. We will have DXCC field checkers at the meeting for anyone wishing to have QSLs checked for their DXCC award. For further information about NCDXA, join our Sunday night meeting on the air or contact any officer or club member.

Mike - KO7V

Southern Patuxent Amateur Radio Club Albert Einstein Special Event March 14

A Special Event operation to commemorate the birthday of Albert Einstein will be conducted by the Southern Patuxent Amateur Radio Club on March 14. The Club station N3IFL will operate during the hours of 1300 and 2100Z in the lower portion of the General phone bands and the Novice 10-meter subband.

The theme is nuclear energy, and provides an opportunity for the many Amateur Radio Operators who work throughout the industry to interact with other operators and demonstrate their hobby to the local community and to their fellow employees. Baltimore Gas & Electric Company is sponsoring the event at its Calvert Cliffs Nuclear Power Plant Visitors Center - which is open to the public. Company representatives will be on hand to answer visitors' questions as well as those from Amateurs who contact the station by radio. A commemorative QSL card will be sent to individual operators who contact N3IFL during the Special Event. Send your QSL and a SASE to Bob Smith - N3IFL, 12480 Catalina Drive, Lusby, Maryland 20657 (410) 260-6908.

Nuclear power plants across the United States are also invited to participate by operating their own Amateur Radio stations on the same day. Certificates will be awarded to each plant that contacts at least five other plants and submits a copy of their station log.

Anne Arundel Radio Club

Meetings: First and Third Thursdays at 8:00 p.m.
Davidsonville Family Recreation Center, Queen Anne Bridge &
Wayson Roads off Md. Rt 214 near Annapolis

On-the-Air: Thursdays when there is no club meeting, 2030 Local on 147.705/105
Tuesdays at 2030 Local time on 28.410
Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz

Address: P.O. Box 308, Davidsonville, MD 21035
Margaret (Holly) Bevan, (301) 923-0229

The entire slate of Anne Arundel Radio Club officers and directors was reelected to serve again during 1992. They are:

President: Doug Sweely - N2IBM
Vice Pres: Carter Anderson - N3GRX
Secretary: Bob Dove - KA3OCZ
Treasurer: Bob Israel - WC3I
Directors: David Walter - N3BFO
Margie Currey - KA3PQP
Oscar Ramsey - NV3G

The annual AARC Family Christmas Party on December 19th was, as usual, a merry occasion. Santa was again able to attend. He brought the children gifts by name and handed out gifts from under the tree to the adults. Of the hundred or more persons present, 29 were children. There was an abundance of food, especially the sumptuous desserts brought by the attendees. Everyone present appeared to have a most enjoyable time. Event co-chairs Carole Connolly - KA3WTP and Tony Young - WA3YLO were ably supported by many Santa's Helpers - members from the club who assisted in the planning, preparation and execution of details for the affair.

AARC once again participated in FIRST NIGHT ANNAPOLIS by operating an International Message Center from the front windows of a store on Main Street, in the center of the varied and enjoyable activities in downtown Annapolis. An 80-meter antenna was installed by "invading" adjacent rooftops. A 2-meter roof antenna was a much easier task. With packet and HF operations, all but a few of the 70 or so messages were sent from the storefront location. Eleven club members were involved in the project.

Word has just been received that AARC Life Member Royal Mumford - W3CU became a Silent Key on January 4th at the age of 93. Royal was a true radio pioneer. He and his two brothers began experimenting with Amateur Radio almost 80 years ago, before calls were issued. As a guest speaker at AARC on two different occasions, he held listeners spellbound with recollections of his experiences during the early years of Amateur Radio.

At the Clubhouse on December 14th, Bob - WC3I, Oscar - NV3G and Nancy - NT3Z administered 16 exams to 9 persons. Five exams were passed. There was one upgrade. Michael - NV3Z was on hand to do the grading. The next test date at the AARC Clubhouse will be February 8.

Congratulations to Bob Long - KD3JK who retired and moved to Hagerstown. He has been elected president of the Antietam Radio Association.

Vince Burgher - N3IEG has upgraded to Advanced. Tim Dugan - KA3YYP is now a Technician. Bill Holmes has changed his call from N3KBD to WT3N and Jeff Katz is enjoying his first call - N3KZV.

Holly - N3BMB

Vienna Wireless Society

25 Years of Public Service

Meetings: 2nd and 4th Fridays of each month, 7:30 p.m.
Vienna Community Center, 120 Cherry Street, Vienna, VA
Repeaters: K4HTA/R 146.085 in/146.685 out
222.340 in/223.940 out, 448.250 in/443.250 out
Nets: Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out.
Pow-Wow Net Every Night at 9:00 p.m. at 28.400 MHz
Information: Pat Crosby, KA4FHK (703) 978-6316 (H); (301) 731-9800 (W)
Training Classes: Paul Wilkins, AB4CY (703) 560-2779
Mailing Address: P.O. Box 418, Vienna, VA 22183

The Vienna Wireless Society Board of Directors elected the new officers for 1992 at their December 9th meeting. They are Margy Patterson - N2JRG as President, Bob Lipp - K4MJO as Vice-President and Ross Patterson - N4YYH as Treasurer. The position of Secretary is still open.

Paul - AB4CY had a very good fall training program. Eleven people passed the novice test. Two of his students managed to get Mom and Dad involved so there are two new Ham Families. Antennas aren't a problem when Mom and Dad can both use them, so with the VWS antenna crew, under the care of Dave - N4JGQ, some of them are on the air.

We are all looking forward to Winterfest™ on February 23rd. Our chairperson Nancy - NK4U has added some new features and this should be the best Winterfest yet.

For the first time there will be DXCC field checking of QSLs. This is only for your first DXCC award. There will also be bus service from the Vienna Kiss and Ride! This should help with the parking problems of the past. As usual, the VE exams will be Saturday 9:00 a.m. at the Vienna Community Center. Now's the time to go for that upgrade. Our table chairman Harry - W4ACN had heart surgery over the holidays and we all wish him a speedy recovery.

At our last meeting of 1991 the VWS membership voted to give a new scholarship in 1992. It is specifically for Northern Virginia Hams. To qualify you must have completed at least one year towards a Bachelors degree and hold a general class or higher license. Pass the word if you know anyone interested.

See you at Winterfest!!

Margy - N2JRG

A Royal Welcome

Four British Novices were privileged to be presented to His Royal Highness Prince Philip, Duke of Edinburgh on the 20th of November. The ceremony was held at Buckingham Palace. In 1988 Prince Philip inaugurated "Project Year" - Youth into Electronics via Amateur Radio and he has continued to display his interest in some of the successes of the project. Prince Philip is also patron of the Radio Society of Great Britain.

The Novices who met with the prince were 2E0AAA, 2E1AAA, 2E1AAD and 2E1AAE. Also present at the ceremony were current RSGB president GW4HWR, who has been heavily involved in the Novice training scheme; 1988 president G2XM, and RSGB's Project YEAR coordinator G4JKS.

(From GB2RS Broadcast reported by Westlink Report 12/13/91)

Stafford Amateur Radio Association

Meetings: Weekly, 0730 a.m. every Saturday morning. at the "Nothin Fancy" Cafe on Route 1. All meetings are informal.
Repeater: N4SMP/R 145.27 out 144.67 in. Autopatch for members.
Mailing: c/o George Gautney - N4SMP, 9 Skyview Ct., Stafford, VA 22554-5232
Information: Dick Kirby - W4GFB (703) 720-0406 or George Gautney - N4SMP (703) 659-5720
Packet: 145.07, W4GFB-2

Jerry Mullinix - AC4HK, has instituted a new novice/technician course in Stafford. Sponsored by the Stafford County School Adult Education Program, the course begins 29 January (the last Wednesday of the month), and will meet again each of the next nine Wednesdays at 1900 (that's 7 pm for Ken - N6CFR), at the Rock Hill Elementary School. The fee for the course is \$20, which pays for the instructional materials. For information, contact Jerry at (703) 659-9418.

The next test session will be at the North Stafford High School on 31 January (the last Friday), at 7:30 pm. The session will be under the auspices of the ARRL and walk-ins will be welcome. The new fee is \$5.40.

It was standing room only at the first SARA breakfast of the new year, with several new calls in attendance. Four of the visiting hams were named Jim - N4PVC (a really old member), KD4GKX, KD4GKS, and KD4IEA. Two of the new hams - KD4IEA and KD4IEB - have been nicknamed the second "Watts and Joe Show". If that doesn't make sense to you, check in to the Stafford repeater most any afternoon and you'll soon understand. Also in attendance was Greg - N4RKV, who can explain why we instituted a new rule requiring hams named Jim to distribute themselves throughout the meeting area.

The new SARA officers assumed office in December, following an inaugural parade and traffic jam in downtown Stafford (the Courthouse Stafford, that is). Both of the parade cars were, appropriately, equipped with two meters and the new officers in the best tradition of newly elected politicians had nothing memorable to say.

Steve Trout - NM7J, and family are going to Thailand. Steve has been given permission to use the station at the Thai Radio Club and plans to work as many Northern Virginia hams as

possible. Information on his operation will be disseminated as we receive it, and periodic reports will be posted on W4GFB-2 (145.07).

John - N4WRT, is hard at it in his new optical shop on Route 1, in Stafford. As the only optical shop in Virginia - probably in the US - with a ham shack in the back room, it's of particular interest to amateur radio operators. Drop in if you happen to be in the area.

And, finally, Tom - KD4AOD, is back in the news. His packet operations have produced a number of interesting comments. One has to do with connect requests he has been known to issue to himself. The other has to do with unconfirmed reports that his TNC has occasionally been left connected to his radio, even while it was tuned to the Stafford repeater. Those reports haven't been confirmed, but odd, packet-like sounds have sometimes been heard just before or after voice transmissions by KD4AOD. It may be that he is experimenting with an FM voice to TNC link, or perhaps 30 years to studying for his upgrade finally burnt out his memory.

Spike - K9MX



Laurel Amateur Radio Club

A Volunteer Examiner Coordinator

Meetings;	4th Wednesday of each month (except November & December) 8:00 p.m. at Harrison-Beard Building on corner of 9th and Montgomery, Laurel, Maryland.
Social:	2nd Wednesday of each month except December. (Call for directions.)
Nets:	1st & 3rd & 5th Wednesday of each month, 8:30 p.m. on 147.54 simplex.
Mail:	P.O. Box 3039, Laurel, MD 20709-0039
Exams:	3rd Saturday of each month, 10:00 a.m. at Maryland Radio Center.
Information:	Jim - WI3N (301) 725-6829 or Pud - W3DQI at (301) 498-6293

The Laurel Amateur Radio Club is active in the Laurel area, which we think generally includes most of Northern PG County, as well as the surrounding area in Howard, Montgomery, and Anne Arundel Counties. All Amateurs in "our neighborhood" are welcome to participate in LARC activities.

The Laurel Amateur Radio Club elections were held at the regular meeting of the membership in October. A special thanks is in order to Bill - KD3EC, outgoing president; John - W3GFS, outgoing vice president; and Cathy - KA3QPU, our outgoing treasurer. Bill and his wife, Mary Jo - N3HNC, both retired at the end of 1991 and they will be moving to the State of Washington once they get their house sold.

Also, special thanks are in order to the officers who stayed on for another term: our secretary Mary Ellen - KD3ZH (formerly N3FQA - congrats on getting your Advanced!) and our FAR representative Joe - KA3UZI. Newly elected officers include:

President: Jim - WI3N
Vice Pres: Howard - K3IOG
Treasurer: Pud - W3DQI

The club had its holiday banquet this year at the Bay and Surf Restaurant in Laurel. Thanks to the outstanding organizational talents of

Donna - N3HYF and her husband George - WD3W, the evening went smoothly. The fifty members and spouses enjoyed excellent seafood and steak dishes. The after dinner speaker was Rick Jackson, son of Jack - WG3K. Rick is a Secret Service Agent and gave a history of the service and spoke about the communications aspect of the Service.

The first Saturday of December, several members of the club assisted the Soroptomist Club with communications for the annual Christmas Tree lighting ceremony and parade. The LARC is quite public service oriented and provides communications for about six major events over the course of a year. The events include parades, festivals, cross country track, and marathons.

Finally, I would like to thank our outgoing VEC contact person, Al - WA3QGA for the prodigious amount of time and effort he expended keeping our VE program running smoothly and efficiently and our new VEC contact person, Bob - WB3KXJ, for taking over the position. Al will continue on as our alternate contact person. Both of their families are to be commended for their patience.

We hope everyone's dreams and ambitions are fulfilled in the new year.

Jim - WI3N

Words of Wisdom

A man flattened by an opponent can get up again. A man flattened by complacency stays down for good. If you stand up for what you believe in, your one small voice just might make a difference. It's worth trying.

Arlington Amateur Radio Club

Meetings: Third Tuesday of each month at 7:30 p.m.

Arlington Red Cross Chapter House, 4333 Arlington Blvd. (Rte. 50)

Net: Tuesdays (except meeting nights) at 7:30 p.m. on 144.87/145.47 MHz FM

Info: Robert D. Milligan - KI4MB (703) 533-0650

New Officers Elected

At the December 17 meeting, Arlington ARC members elected a new slate of officers for 1992. Candidates for all offices but President were unopposed.

Elected were:

President: Bob Milligan - KI4MB
Vice Pres: Dennis Bodson - W4PWF
Secretary: Mike Callaham - NW3V
Treasurer: Tom Crabe - W4LMW

The new officers hope to increase club membership and service in 1992, with the help of Old Timers and others clever enough to evade nomination.

For newcomers: "service" means public-service and emergency communications coordinated through the club and/or ARES, and particularly communications support for our sponsor, the Arlington Chapter of the American Red Cross. Spring and Fall are the high seasons for scheduled public-service activities (races, parades), but unanticipated needs arise from snowstorms, telephone outages, and other surprises. Help by being "on tap" -- contact Arlington County Emergency Coordinator Rick Bunn - N4ASX at (703) 685-7765.

Joint Net To Continue

After elections, there was spirited discussion of whether the Tuesday night net should remain a joint forum of the Arlington ARC and Arlington County ARES, and if so, who should control it. The consensus seemed to be a reaffirmation that the two organizations are officially distinct but with considerable common membership, and that the net ain't broke and hence shouldn't be fixed. It was proposed that the script for calling the net be reviewed to ensure that it makes the two affiliations clear.

A New Year's Resolution

I believe that the spectacular growth of club membership in 1990 was stimulated by the regular club newsletters and submissions to Auto-Call. We will strive for the same perfect periodicity this year. Happy New Year to all! We hope to hear new as well as old calls on the net, and at meetings -- "codeless" Techs,

Mike - NW3V

Outranked

The last word on a subject should not always be from the person with the most authority, but rather from the person with the best grasp of the situation. A good example is demonstrated in the following story adapted from the Mount Vernon Radio Club's *Ye Olde RF Output* of 11/91

One stormy night at sea, the ship's captain saw what appeared to be the lights of another ship out in front of him. He had his signalman blink to the other ship: "Change your course 10 degrees North."

A reply came blinking back: "Change YOUR course 10 degrees south."

Slowly simmering at this impertinence the ship's captain glowered and had an answer sent: "I am the captain of the Battleship Whatsit. I said change YOUR course 10 degrees north."

The reply followed: "Well, I am a Seaman First-Class at Disaster Point Lighthouse. And I said change your course SOUTH."

Pentagon Amateur Radio Club

Meetings	Monthly, on the second Wednesday of the month. Noon. PARC clubroom (5B272), The Pentagon
Repeater:	K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.
Packet:	145.07 Digi - K4AF, Mailbox - PARC, Node - PNTAGN
Mailing:	P.O. Box 47063, Washington, DC 20050
Information:	David G. Boyd - K9MX (703) 659-6241 (H) William Klein - N4VBW (703) 697-8157 (O) or (703) 590-2546 (H)

The next Pentagon test session will be held in Room 5B272 of the Pentagon, during the lunch hour (11:30 am to 1:00 pm). Walk-ins are always welcome, and an escort will be stationed at the Metro entrance for applicants who don't have a building pass. The test is conducted under the ARRL and the new fee is \$5.40.

We can also make special arrangements for exams for US personnel who are assigned overseas, but are or will be in the Washington area for meetings or other business. Just let us know as far in advance as you can (at least one day), and we'll set it up. Novice exams can usually be set up with just a few minutes' notice.

Several hams recently asked about joining the Pentagon Amateur Radio Club (PARC). PARC membership is open to anyone assigned to the Pentagon - military or civilian. The station is open to anyone interested in visiting, and hams who would like to see or operate the station may do so. If you would like to visit during the lunch hour, you can almost always find someone in the club room who would be willing to meet and escort you up to the shack. If you want to visit at any other time, just call a club officer and we can probably arrange things for you.

Spike - K9MX

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Down With XYL

Editorial by Jean Kincheloe - K6OQD

Editor of YLRL *Harmonics*

In 1941 the term "YL" was adopted by YLRL as the general term denoting "Any licensed feminine Amateur Radio operator, regardless of age or marital status."

Now, if non-YLRL members wish to relinquish their standing as *ladies* or *young persons* simply because they got married, then let it be on their heads; but can't YLRL members at least remember that they did not cease being ladies or became "old" upon attaining the status of a married woman? Can't we continue to hold up the tradition that we will always be **YLS** no matter how old we get or how many times we get married?!

Now, I will admit I am old (and getting older by the minute); but by darn I am still a *lady* and, as long as I remain a ham, I pray I will always be *young* - at least at heart!

I realize it is the modern tendency when a thing has been used erroneously often enough it becomes acceptable by "common usage;" but that is a refuge of those too lazy to correct themselves! I am a **YL** - NOT an **XYL**.

ARES/RACES Leadership for Virginia

Virginia Section EC &

Virginia RACES Coordinator Steven P. Czaikowski, WB4ZTR (703) 869-3674
 Virginia Deputy RACES Coordinator Henry Hassell, K4LMY (804) 561-3060
 Virginia RACES EOC Radio Officer Earl Bishop, N4EXQ (804) 270-7564

Northern Shenandoah District #1

DEC John Anastas, KJ4EK (703) 667-6046
 Clarke County EC (Vacant)
 Frederick County EC Bob Cooley, N4VJK (703) 662-5312
 Page County EC George McCulloch, WA3WIP (703) 743-3532
 Shenandoah County EC (Vacant)
 Warren County EC (Vacant)
 Winchester City EC (Vacant)

National Capital District #2

DEC Bob Lewis, N4SCK, ... (703) 830-3495
 Alexandria EC Rich Adamy, A4GFY (703) 931-2917
 Arlington EC Rick Bunn, N4ASX (703) 685-7765
 Fairfax EC Ed Ober, KC4EFJ (703) 591-0422
 Fauquier County EC Bob Taylor, KC4CVG (703) 439-2786
 Loudoun County EC Bill Roemer, K3CUU (703) 554-2523
 Military District of Wash. Dick Lum, NH6E (703) 938-9215
 Prince William County EC Harry Vorhauer, W4PVA (703) 368-6050
 SKYWARN Net Manager Dan Gropper, KC4OCG (703) 281-2358

Northern Piedmont District #3

DEC Morris Jones, NM4R (804) 293-5203
 Greene, Albemarle County EC Hein Hvatum, N4FWA (804) 977-4438
 Fluvanna, Louisa County EC Ed Lang, KC4YLX (804) 295-5318

Upper Rappahannock District #4

DEC Jim Brodhead, KA4ERP (703) 972-2566
 Culpeper County EC Belmont Wroman, WD4OKD (703) 399-1210
 Madison County EC Tony Deivert, W4MFX (703) 948-6327
 Orange, Rappahannock Co. EC Malcolm Gray, KK4GZ (703) 854-4342
 Spotsylvania County EC Jim Brodhead, KA4ERP (703) 972-2566
 Stafford, Caroline, King George EC John Cavanagh, KB4XF (703) 373-7076

Rappahannock District #5

DEC Verlan Hall, AA4HQ (804) 776-9353
 Lancaster County EC Henry Owen, AC4AC (804) 438-6943
 Middlesex County EC Verlan Hall, AA4HQ (804) 776-9353
 Northumberland County EC Bill Morhard, KA4DEO (804) 580-5467

Virginia Capital District #6 are:

DEC VACANT - (Contact WB4ZTR if interested)
 Chesterfield County EC Joe Gagliano, KJ4RG (804) 748-6985
 City of Richmond EC Bill Kidd, KA4UND (804) 282-1207
 Dinwiddie County EC (VACANT)
 Goochland County EC Glenn Swanson, KB1GW (804) 556-3357
 Hanover County EC (VACANT)
 Henrico County EC Dennis Wyman, KB4DCE (804) 737-8386
 Prince George County EC Doug Edwards, N4KDE (804) 541-3528
 King & Queen County EC (VACANT)
 King William County EC (VACANT)
 New Kent County EC Ray Campbell, WA4OVW (804) 566-0681
 Powhatan County EC (VACANT)
 Charles City County EC Gil Frey, N4JST (804) 829-2240
 SKYWARN Net Manager Billy Walton, KC4ETD (804) 795-2393

ARES/RACES Leadership - Continued

Blue Ridge District #15

DEC	Rusty Bowman, N4YET	(703) 833-5565
Augusta County EC	Doug Edwards, KA4NWK	(703) 942-3787
Rockbridge County EC	Dan Welsh, KI4ZR	(703) 463-7800
Rockingham County EC	Zane ("Rusty") Bowman, N4YET	(703) 833-5565

Official Emergency Stations in Virginia Districts 1, 2, 3, 4, 5, & 15

Northern Shenandoah District #1	Rick Fravel, N4FNT
National Capital District #2	Dick Lum, NH6E
.....	Geri Sweeney, N4GHI
Northern Piedmont District #3	(Vacant)
Upper Rappahannock District #4	David ("Spike") Boyd, K9MX
.....	Jim Brodhead, KA4ERP
Rappahannock District #5	(Vacant)
Virginia Capital District #6	
.....	Earl Bishop, N4EXQ
.....	Joyce Dolby, WB4PNY
.....	Ralph Fetty, N4EHJ
.....	Gil Frey, N4JST
Blue Ridge District #15	John Scheufel, WA4DTE

The above information is believed to be accurate through 12/28/91
Please advise Hank Black - N3ESR of any changes. Phone (301) 340-8595

Junk Mail

SAVE OUR TREES

How much of your mail goes directly from the mail box to the land fill? Save our ecology by getting your name off the mailing lists that are sold to advertising mailers and stopping the mail you really don't want.

Every time you give your telephone number for a reference/ID your address probably goes onto a direct marketing mailing list. There is a solution: Write to:

Mail Preference Service, c/o Direct Marketing Assn., 11 West 42nd Street, P.O. Box 3861, New York, NY 10163-3861 or phone (212) 768-7277. If you request it, your name will no longer be sold to national mailing companies. (You will still have to contact local companies directly to remove your name from their lists.) You also need to write Mail Preference Service every three to four months to keep your name from getting back on their up-date lists. It really is worth the effort - to you and to the ecology.

TELEPHONE "JUNK MAIL"

Another form of "Junk Mail" is telephone advertising. Over 300,000 telephone solicitors make 18 million live calls every day, according to a report by the House Subcommittee on Energy, Commerce and Telecommunications. In an effort to curtail these calls, the US House of Representative has passed a compromise bill that would outlaw the use of automated telephone and facsimilie equipment to send unsolicited advertisements into peoples' homes. The compromise bill contains separate versions of legislation passed earlier by both House and Senate.

(From Westlink Report 12/13/91)

Hungry Hams

The following list of Amateur Radio Eatin' Meetin's has been provided by Perry Crabill - W3HQB. Perry says this list is "the product of my latest research about breakfasts and luncheons where hams get together on a regular basis." Do you know of other groups that would like to be listed?

MARYLAND

Cumberland

1st Saturday, 9:00 a.m.
Barton's Reataurant
Route 220 South (About 8 miles
south of city limits.)

Laurel

1st Saturday, 11:30 a.m.
Laurel Center Mall
Fountain Cafe food service area near
Montgomery Ward (US 1 & Cherrry Ln.

Waldorf

Southern Maryland ARC Breakfast
Every Saturday, 8:00 a.m.
Info: Hank - W3FVD

Wheaton

Every Wednesday, 11:30 a.m.
Anchor Inn
2509 University Blvd. W.
(Route 193 at Route 97)

Do you know of other groups
that would like to be listed?
Send us the information.

VIRGINIA

Annandale

"Hungry Hogs"
Every Tuesday, 11:15 a.m.
Shakey's and Horn & Horn (Alternate weeks)
Parking lot 7201 & 7203 Little River Turnpike
(Adjacent to bank, Rt 236 & Backlick Road)
Information: "Frosty" Akers - W3PT

Fairfax

Every Tuesday, 11:15 a.m.
Dino's Den
9534 Arlington Blvd
(Route 50 at Route 29)

Stafford

Every Saturday, 7:30 a.m.
Nothin' Fancy Restaurant
Rt. 1, South of Stafford Courthouse

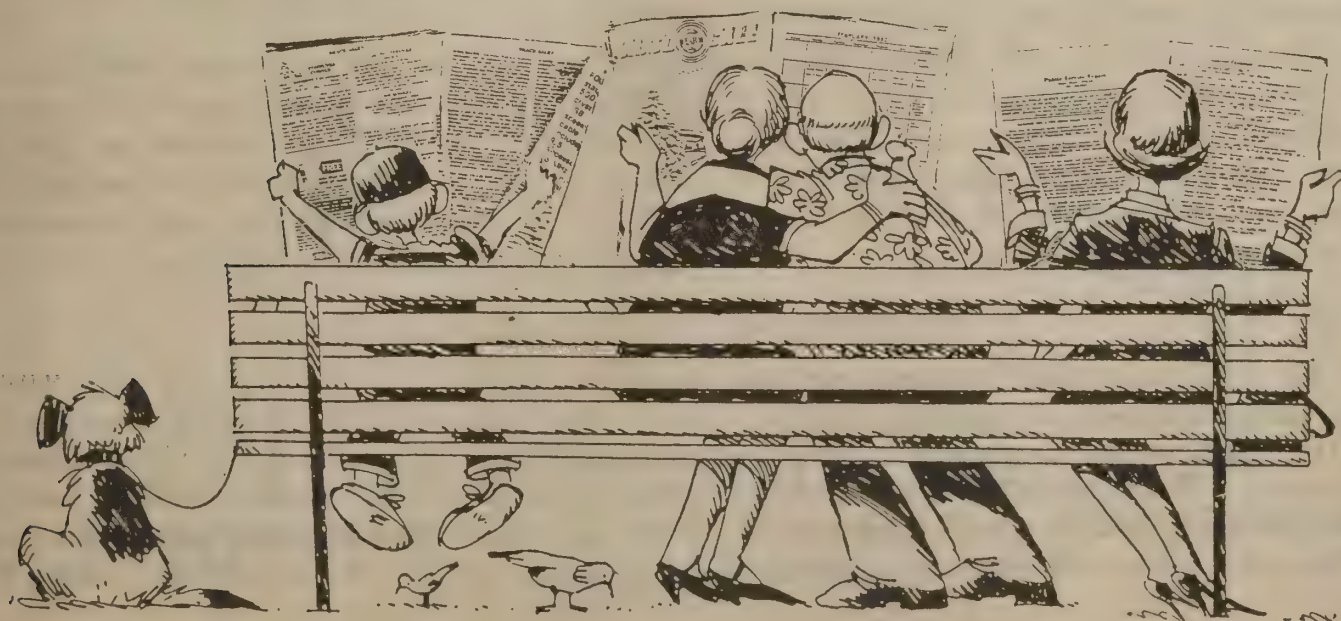
Harrisonburg

Every Tuesday, 11:30 a.m. (Note new day)
Holiday Inn/Victor's Restaurant
Route 11 & Pleasant Valley Road
(I-81 Exit 62)

Charlottesville

Every Wednesday, 11:00 a.m.
Bojangle's Chicken Shack
Rio Road & Route 29 North

**Be A Know It All
READ AUTO-CALL**



G AND G ELECTRONICS
OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.

20877

THE BIRD MAN
OF
WASHINGTON

BIRD 43 WATTMETERS - THE INDUSTRY STANDARD - NEW AND USED

Wattmeter Elements - New and Used

Cases and other BIRD Accessories

--- WE BUY OR TRADE USED BIRD ---

SPECIAL PURCHASE:

USED

DUMMY LOADS

0-500 Watts, Oil Filled

DC to 1000 MHz +

New retail \$400 to \$650

WHILE THEY LAST

\$150_{EA}

Other power levels available also.

OPEN MONDAY & TUESDAY 11 AM - 9 PM
WEDNESDAY 11 AM - 5 PM & BY APPOINTMENT
301-258-7388

SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-CALL at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a \$5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate.

Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

FOR SALE: Ham Paradise in Loudoun County, Virginia. \$229,900
1 ¼ hours from D.C., 45 minutes from Dulles airport. On top of the Blue Ridge Mountains at 1800 feet. 10 acres, **no restrictions**, underground facilities - no noise. Ideal DX and repeater site. With free standing 70 foot fire tower. No more climbing. Walk up the stairway to the top, then work on the antennas in a 7 x 7 foot enclosed space! 763/4 Bedrooms, Living Room, Kitchen, Dining, 2nd Living Room on second floor. Full walk-out basement with finished radio room. 115/230 volts. Finished office or sewing room, storage room, shop and laundry areas. Screened porch, deck, and extra large two car detached garage with RC openers. For full details call K4RZ collect at (919) 637-7329, or contact local agent, Marge Burton at (703) 847-9111. (03)

FOR SALE: COLLINS EQUIPMENT
Nice 30S-1 kilowatt amplifier, WE . . . \$850
Another 30S-1 with a few scratches . . \$750
312B-4 station control console, wattmeter
(200w/2000w For. & Ref.) RE \$120
312B-4WE \$100
312-B-4 needs paint \$70
30L-1RE Amplifier, 4 811A's \$500
Ed Bruns - W3EKT, 3420 Shady Lane,
Glenwood, Maryland 21738 (03)

FOR SALE: YAESU HF Transceiver
FT-757gx MKII; all mode; all frequency; covers all HF MARS; never obsolete; like new; best cash offer over \$775
Will deliver within 50 miles (buying new camcorder for ATV). Call Bud - WA3TNQ, 1602 Bradley Avenue, Rockville, Maryland 20851-1436 (301) 340-9141 after 7 p.m.(02)

FOR SALE: UNUSED TEN-TEC: OMNI V,
Herculese II with power supply, Automatic Antenna Tuner, also KLM KT-34XA with Heavy Duty Boom in unopened carton. Call or write for details. AG3V (410) 343-2075 or write P.O. Box 1142, Cockeysville, MD 21030 (04)

FOR SALE: COLLINS S-LINE
32S-3, 75S-3B, 312B, 516F-2. Paid \$1500
Will sell for \$1000
Also will throw in a set of Tubisters and a VIKING I Linear. Jim Decker - WA3NWK. (304) 258-4292, Hedgesville, WV 25427 (02)

FOR SALE: COLLINS KWM-2A Transceiver,
near mint condition, with 10-meter crystals, COLLINS 516F2 ps, 714Z-1 Phone Patch and station control, 429B-1 ps \$750
HEATHKIT SB-220 80-10 meter KW Amp \$525
Dave Rogers - N4JGQ (703) 237-5465 (02)

NORM'S ROTOR SERVICE

Rebuilt Rotors, Parts & Service
Call Norm Jeweler - K3LYW
5263 Agro Drive
Frederick, MD 21701
(301) 874-5885

Need antenna or tower work done?
Call L. Chertok - W3GRF.
(301) 297-4888

SHACK SALES

WORLD RADIO, Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$14 per year (\$15.09 in California, \$24 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continuous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to **WORLD RADIO**, 520 Calvados Avenue, Sacramento, CA 95815. (Swp)

WANTED: In any condition:

- Collins KWS-1 Transmitters
- Collins KW1 Transmitter
- Collins 30K Transmitter
- Collins 51J/75A Series Receivers
- A cabinet for Collins 32V-2 Transmitter
- The desk part of the Johnson Desk kilowatt Amplifier.

Howard M. Mills - W3HM Rt #3, Box 712, Harpers Ferry, WV 25425. Call D.C. (202) 647-2428 (Work) or (304-876-6483 (Home after 7:00 p.m.) (05)

WANTED: QUOTES on COLLINS 32S1, 32SA-2, 32S3 Transmitter, KWM2 or a model 40L-1 or enry 2 or 3K Linear, Unique Wire Tuner; Cash for your surplus vacuum tubes oldies special purpose and transmitting types. Milton Levy - W5QJT, 539 McCarty, Apt 407, San Antonio, TX 78216 (512) 366-3290 (02)

Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707. Phone (301) 725-4229. (Swp)

"RADIO INSTALLATIONS"

Clean - Neat - Professional

If you want it done right

Call us.

Herm - K2LEQ/3

(301) 952-1414

(072)

WANTED: HAM EQUIPMENT AND OTHER PROPERTY. The Radio Club of Junior High School 22 NYC, Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. Please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. You are invited to check into the WB2JKJ CLASSROOM NET at 1200 UTC on 7.238 MHz or on 21.395 throughout the day. We hope to meet all of our Pennsylvania friends at the AARG Hamfest on February 29 in Lebanon, PA. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072, FAX (516) 674-9600 (02)

WANTED: Rohn Bx Tower sections--

BX#5, BX#6 with mounting stubs.

Wally - N4XSM (703) 459-4190, Woodstock, Virginia (02)

WANTED: Rohn 25 Tower sections and accessory/rotor shelf. Dave Rogers - N4JGQ (703) 237-5465 (02)

FOR SALE: Rohn HDBX-48 self-supporting 48' tower. Excellent condition \$350 Dave Rogers - N4JGQ (703) 237-5465 or Larry Wilbur - WB4PFJ (703) 691-3249 (02)

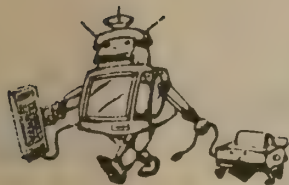
FOR SALE: HYGAIN DX88 8-band Vertical - 6 months old. \$230 Fred - KC4MOP (301) 567-9231 Please call in evenings. Oxon Hill, MD (02)

PHD Associates LEESBURG, VA. (703)-771-9284

The QUANTUM HAM BATTERY H-T Power for Life!
RANGER COMM. RCI-2950 10M Multimode Mobile Xcvr
REALISTIC HTX-202 2M H-T: Loaded with Features!
"RIG SAVER" Universal Hand-Held/Mobile Radio Mount

Call for Prices!

SHACK SALES

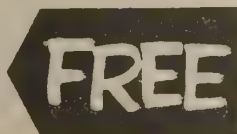
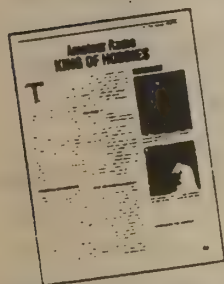


COMPUTER CORNER

FOR SALE: COMMODORE C-64 computer & power supply. Great for dedicated packet operation. Cost \$50
Contact Bill - W4NFR at (703) 347-7262, Warrenton, Virginia (03)

FOR SALE:

DRAKE SPR-4 Receiver, hamband xtals \$225
COLLINS 51S-1 Rcvr (WE), 312B-3 Sprk \$650
Hammarlund HQ-170AC Rcvr, HX-50A Xtr \$250
Hammarlund HQ-145XC Receiver \$175
Kenwood R-1000 Rcvr, 4kHz AM Filter \$350
Grundig Satellite 400 portable \$175
All units include manuals and are in good to excellent condition. Alan - N4LUS. Phone (301) 229-7069, Bethesda, MD (03)



AMATEUR RADIO - KING OF HOBBIES

This 16-page booklet is packed with information on the basics of ham radio ... how to get a license and who to contact for your test. To obtain a free copy, telephone NARA at 1-800-GOT-2-HAM.

YOU CAN PASS THE CODELESS HAM RADIO TEST AND WE GUARANTEE IT!

It's easy and fun with the NARA Education Package. You get Don Stoner's Ham Radio Handbook, IBM or Macintosh compatible software to test your knowledge after you have studied the book; a complete list of Contact Volunteer Examiners, the FCC Rules and Regulations for ham radio, a copy of *Amateur Radio—King of Hobbies*, plus a bonus copy of our monthly journal, *The Amateur Radio Communicator*. The NARA Education Package is only \$29.95 for the IBM or \$49.95 for the Mac version (\$3.00 S&H)



16541 Redmond Way, Suite 232
Redmond, WA 98052
Telephone Free 1-800-GOT-2-HAM

**CALL US
TODAY!!**

Call JWO SERVICES

Save on all

1992 CALLBOOKS (List \$29.95) Only \$23.95 each
NOW YOU'RE TALKING (List \$.19) 1-9 \$17.30; 10-up \$16.25
ALL ARRL & AMECO STUDY GUIDES IN STOCK!
FCC RULEBOOK by ARRL (List \$9) \$8.25; 10-up \$7.70
1992 ARRL HANDBOOK (List \$25) \$22.50; 10-up \$21.25
OPERATING MANUAL New by ARRL (List \$18) \$16.50; 10-up \$15.45
1992 PASSPORT TO WORLDBAND RADIO (List \$20) \$18.25; 10-up \$17
1992 WORLD RADIO & TV HANDBOOKS (List \$20) \$18.25; 10-up \$17
Discounts on all ARRL, AMECO, CALLBOOKS, TI Calculators, Etc.

Call and order your class needs!

I ship the quantities you need when you need them.

JWO SERVICES

John W. Obradovich, W3IS

Daily to 10:00 p.m. and weekend afternoons

12 Hickory Place Camp Hill, PA 17011
Phone (717) 731-4747 MasterCard/Visa
Worldwide shipments New 1992 Free Catalog (02)

FOR SALE: Ten-Tec Model 561 Corsair II with manual, matching power supply/speaker, 705 desk mic and 2.4 kHz, 500 Hz, 250 Hz filters. Extremely clean, mint \$975
Stan - KA8SFP (703) 720-3724, Stafford (02)

FREE: .625 CATV HARDLINE. One 110-foot length, five 70-foot lengths. New cable off of reel. Fred - KC4MOP (301) 567-9231. Call in Evenings. Oxon Hill, MD (02)

Attention Amateur Radio Newsletter Editor. AMATEUR RADIO NEWS SERVICE is an organization of publisher and editors of Amateur Radio newsletter and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Park Ridge, Illinois 60068

FOR SALE Yaesu 2-meter Handheld, Model FT-209RH

- NC Quick Charger DC Adaptor MH-12
- AT2 Speaker Microphone.

DOSARC Phone Tom Warren 301-894-6678, Temple Hills, Maryland (03)

FOR SALE: Tri-Band Yagi, Telrex Antenna Model TB5EM. Recently removed from service. Collins KWM-2 Transceiver with Power Supply, Station Control, Speaker and Microphone. DOSACR. Phone Tom Warren (301) 894-6678, Temple Hills, Maryland (03)

SHACK SALES

FOR SALE: RCI 2950 \$260
 Hustler FX2 \$28
 Hustler FX2B \$32
 Uniden 855XL \$150
 Kenwood TS140S \$860
 Cobra 25LTD \$110
 Ben-KD4DWP (703) 978-6268, Fairfax (02)

FOR SALE: CUSHCRAFT A3S Tri-Bander
 with 40-meter Add-on. All stainless steel
 hardware, Manual \$225
 HEATH Remote Antenna Switch w/cable \$70
 Will consider trade for 2-meter rig. Burt -
 WA3G, (703) 641-0719, Falls Church (04)

FOR SALE: RINGO Antenna \$7
 VOM-Multimeter 2000 ohm/volt Micronta \$5
 VOM-Multimeter 2000 ohm/volt \$4
 2 Unused Radio Shack Cig Lighter Adapters
 Input 12 VDC Output 5.5 VDC 600 MA
 Both for \$10
 4" 8-Ohm External Speaker mounted in case,
 New \$8
 Unmounted 6" Speaker \$3
 Hustler Mobile Bracket
 Used with 2-meter FM Antenna \$5
 3 GE AA Recharge Module (never used)
 All three for \$6
 Melvin Saltzbert - WA3AGP (301) 490-3308,
 Laurel, MD 20708 (02)

WANTED: Citizens Radio Call Book Magazine
 1920 thru 1926. Department of Commerce
 "Radio Stations of the U.S." for 1913, 1914 &
 1915. Department of Commerce "Amateur
 Radio Stations" for 1924, 1925 & 1927.
 Department of Commerce "Commercial &
 Government Radio Stations of the U.S. for
 1922, 1923, 1926 & 1928. Radio Amateur
 Call Book Magazine (Flying Horse Cover)
 for 1926, 1935 & 1936. Bob Arrowsmith -
 W4JNN, PO Box 166, Annandale, VA 22003
 or call collect (703) 560-7161. (02)

STOCK QSL CARDS

100 \$12.50 - Shipping FREE
 Send SASE for Samples
 K3UAL Print, 1520 Jutewood Avenue
 Hyattsville, MD 20785
 Phone (301) 773-9383 or 773-5074
 (052)

FOR SALE: COLLINS KWM2/2A - 516F2
 Service Bulletins #1-10. Factory updates,
 including revised schematics.
 100 pages plus \$23
 Operation & Service Manuals. Older ham gear
 & accessories through present day.
 Send Requirements & SASE.
 Semi-rigid hardline, 1 db loss/100 feet at
 1 GHz. UPS shippable 50¢/ft
 K1DFC, (413) 323-4088, 4 Westwood Drive,
 Belchertown, MA 01007-9525 (03)

FOR SALE: 10-meter vertical and horizontal
 4-element beam \$75
 SB-300, SB-400, SB-500 HEATH HF Twins,
 RX ok, TX needs work \$75
 GALAXY-V HF Transceiver, needs work \$50
 HEATH HW-32A and HW-12, one power
 supply, manuals \$50
 Call Dwayne - WD8OYG at (410) 586-2177,
 St. Leonards, Maryland (02)

FOR SALE: YAESU Model FT-107M all solid
 state HF Transceiver with digital readout.
 160-10 meter band (no WARC). Great audio
 and has many features. 100+ watts output.
 Includes exterma; FP-107E power supply and
 sepaker combo. Nice xcvr. With manual.
 Cost \$400
 • CUBIC model 1500 table top HF Amplifier.
 Uses a pair of 572B tubes, with tuned input,
 500 to 600 watts output. 80-10 meters,
 compact and nicely made. Includes
 documentation. Cost \$300
 • DAIWA model CN-520 SWR meter, 1.8-60
 MHz. 200W & 2000W scales. Excellent
 condition. Cost \$45
 • PANASONIC micro cassette answering
 system, model KX-T1000. Cost \$25
 Call Bill - W4NFR (703) 347-7262,
 Warrenton, Virginia (03)

Are you interested in 6-meter (50-54 MHz)
 Activities? Join the Metropolitan
 Communications Network Radio Club, Nets:
 Saturday 8 p.m. (local time) on the club
 FM Repeater 53.250 out/52.250 in; Sunday
 9 p.m. on 50.400 and 8 p.m. on upper side
 band 50.125. For more information call
 Bob Milligan - KI4MB at (703) 533-0650 or
 see the Auto-Call Index for club news column.

SHACK SALES



Society of Wireless Pioneers

THE INTERNATIONAL ORGANIZATION
OF PROFESSIONAL RADIO TELEGRAPHERS

WM J BROWN, SEC 365-2049

**SR
M**

Serio, Romano & Mitchell

CHARTERED
CERTIFIED PUBLIC ACCOUNTANTS

JOHN T. NUTTMANN, CPA

7910 WOODMONT AVENUE
SUITE 1110
BETHESDA, MD 20814
(301) 852-5040

SKYPOINT HAM CENTER, LEESBURG, VA

Skypoint Ham Center

15 C Catoctin Circle SE
Leesburg, Va 22075
1-703-777-9188

- * Large inventory of used ham gear available..up to date & vintage!
- * Professional service with modest rates and quick turnaround!
- * Well stocked inventory of new rigs, station accessories and antenna needs!
- * Collins equipment a specialty!
- * Estate liquidations and sales welcomed!
- * Customer satisfaction a priority!

VINTAGE CORNER

Heath DX-40
Globe Sidebander
Heath Apache
Heath DX-60
Hammarlund rcvrs
Heath DX 100
Heath Warrior amp
Collins KWM-2A
Gonset GSB-201
National NC-188

Viking 1 & yfo
Ranger 11
Gonset mobile

Many more items to
numerous to list!

If you're looking for
a nice clean used rig
come see us.

MONTHLY FEATURE

JAN
92

PRICES STILL REDUCED ON
ALL LINEAR AMPS IN STK!!

ARE YOU HAVING PROBLEMS WITH YOUR
RIG ? DO YOU HAVE VINTAGE GEAR THAT
NEEDS RESTORATION AND CAN'T FIND
ANYONE WILLING TO GET INVOLVED.
WE DO IT ALL AT RATES ALOT LOWER
THAN YOU THINK! CHECK US OUT!

Skypoint Ham Center is located at 15 C
Catoctin Circle SE just off Rt 7 at traffic lite &
Johnson's Charcoal Beef House. Take Catoctin
Circle south west till you see a Honda sign just
across from Virginia Village Shopping Center.
Look for our sign and antennas on top of bldg.

STORE HOURS: Tue - Sat 10 - 6

Wed - Open till 9 pm.

AUTO-CALL POLICY

PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes.

In determining space requirements, figure about 600 words per page (50 lines at 12 words per line), including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 7" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will **NOT** be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address is not included, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

ADVERTISING

SHACK SALES

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Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per column inch for non-commercial ads, \$5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

		Rates per Issue			
Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	\$75.00	\$90.00	\$100.00	\$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy.
Extra charges for halftoning photos
and for in-house artwork or layout.

Copy must be received by the 5th
of the month preceding publication date.
(e.g., Copy for March issue must be received by 5 February)

All Advertising Must be Pre-paid



JOIN ARRL

BENEFITS FOR YOU

QST, QSL Bureau Awards, Low Cost Insurance Operating Aids,
Government Liaison and More—Much More!

MEMBERSHIP APPLICATION

Name _____ Call _____

Street _____

City _____ Prov./State _____ PC/ZIP _____

\$30 in U.S. \$42 elsewhere (U.S. funds) Licensed amateurs or age 65 or over, upon submitting proof of age, may request special dues rate of \$24 in the U.S. \$36 elsewhere in U.S. funds. Persons age 17 and younger may qualify for special rates, write for application. For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA, MC, AMEX, Discover # _____

Signature _____ Expires _____

The American Radio Relay League

225 Main St.

Newington, CT. 06111

USA

AUTOCALL

Atlantic Division Director
Hugh Turnbull, W3ABC
6903 Rhode Island Avenue
College Park, MD 20740
Phone: (301) 927-1797

Roanoke Division Director
John Kanode, N4MM
Rt 1, Box 73-A
Boyce, VA 22620
Phone: 703-837-1340

AUTO-CALL Magazine

P.O. Box 7612

Falls Church, VA 22040-1452

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 Stafford <u>EXAMS</u> College Park
2	3 Adams County Dept of State	4 Antietam PG Wireless	5 BARC MARC	6 Anne Arundel	7 Mobileers Shennandoah	8 Stafford <u>EXAMS</u> Davidsonville Alexandria, VA Harrisonburg
9	10 PVRC	11 Frederick Fauquier	12 Pentagon S. Patuxent --- FAR ---	13 AMRAD MADRAS Mt. Vernon No. Virginia	14 Alexandria So. Mayland Vienna	15 Capital City Tri County Stafford <u>EXAMS</u> Laurel Hampton
16	17 Ole VA Hams Sterling Park	18 Antietam Arlington Woodbridge	19 BARC Goddard MARC QCWA #137	20 Anne Arundel QCWA #20	21 Rock Creek Shennandoah	22 Stafford <u>EXAMS</u> Vienna, VA
23 VIENNA WINTERFEST Adventists	24	25 Columbia	26 Laurel QCWA #20 <u>EXAMS</u> Glen Burnie	27 MADRAS St. Mary	28 New Carrollton Vienna	29 Stafford

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